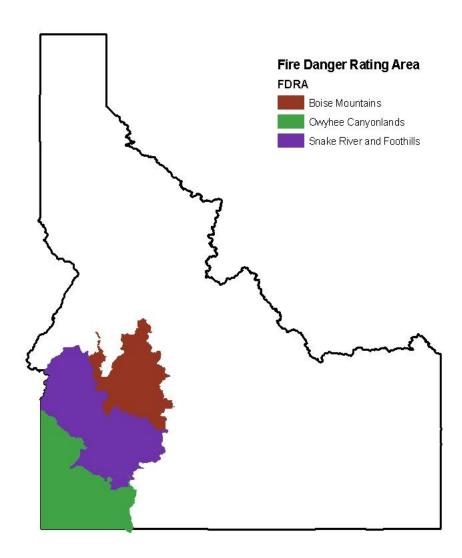






SOUTHWEST IDAHO INTERAGENCY FIRE DANGER OPERATING AND PREPAREDNESS PLAN

March 2011 Revision



SOUTHWEST IDAHO INTERAGENCY FIRE DANGER OPERATING AND PREPAREDNESS PLAN

RECOMMENDED BY:

Bob Shindelar, Forest Fire Management Officer US Forest Service, Boise National Forest	Date
Andy Delmas, Fire Management Officer	Date
Bureau of Land Management, Boise District	
Dan Christman, Resource Supervisor – Fire Idaho Department of Lands	Date
APPROVED BY:	
Cecilia Seesholtz, Forest Supervisor	Date
US Forest Service, Boise National Forest	
Aden Seidlitz, District Manager	Date
Bureau of Land Management, Boise District	
Steve Douglas, Southwest Area Manager Idaho Department of Lands	Date

I.	Intro	du	ction	4
II.	Objec	ti	ves	5
III.	Inven	to	ry and Analysis	6
A.	. In	VO.	lved Parties	6
В.	. Ag	en	cy, Public, and Industry Interaction	6
С.	. Fi	re	Danger Rating Areas	8
4.	. We	at!	her Stations	12
5.	. St	at:	istical Analysis	15
IV. A	pplic	at	ions	20
A.	. Pr	ера	aredness Level	21
В.	. Di	spa	atch Level	23
С.	. Ad	je:	ctive Fire Danger Rating	24
D.	. Se	as	onal Risk Analysis	26
E.	Th	re	sholds (Extreme Fire Danger)	27
F.	. Fi	re	Danger Pocket Cards	28
G.	. Ro	le	s and Responsibilities	29
V. Pr	ogram	. I	mprovements	31
Appen	dix A	_	Team Members	32
Appen	dix B	_	Primary Distribution List	33
Appen	dix C	_	Glossary	34
Appen	dix D	-	WIMS User ID's	35
Appen	dix E	_	Weather Station Catalogs	36
Appen	dix F	_	Weather Station Data Analysis	50
Appen	dix G	_	Preparedness Level Actions	53
Appen	dix H	_	Pocket Cards	59
Appen	dix I	-	RERAP Analysis (Season-Ending Event Probabilities)	60
Appen	dix J	_	FireFamily Plus Analysis	61
Appen	dix K	_	Fire Occurrence (by Agency)	33
Appen	dix L	_	Maps	34
Appen	dix M	_	NFDRS Fuel Models	95
Appen	dix N	_	NFDRS Flow Chart	98

I. Introduction

Each Agency (BLM, USFS, and State) must maintain an appropriate level of preparedness to meet wildland fire management objectives. Preparedness is based upon the assessment of fuels and weather conditions utilizing the National Fire Danger Rating System (NFDRS). This Fire Danger Operating Plan (FDOP) documents the establishment and management of the Boise Interagency fire weather system and incorporates NFDRS fire danger modeling into fire management decisions. In addition, this plan combines an Operating Plan with a Preparedness Plan for three wildland fire management agencies in southwest Idaho (BLM, USFS, and IDL). Direction for development of a Fire Danger Operating and Preparedness Plan can be found in the BLM/USFS Standards for Fire and Aviation Operations and Forest Service Manual 5120.

This plan simplifies the decision-making process for agency administrators, fire managers, dispatcher, agency cooperators, and firefighters by establishing agency planning and dispatch levels using the best available scientific methods and historical weather/fire data. In addition, this plan outlines procedures for developing seasonal risk analysis and defines fire severity trigger points. Furthermore, this plan addresses the *Thirtymile Fire Accident Prevention Action Items* by providing the direction necessary to convey fire danger awareness to fire management personnel of escalating fire potential. This awareness is critical when wildland fire danger levels are at severe thresholds which may significantly compromise safety and control.

This plan addresses fire danger levels and ratings and corresponding appropriate responses, with an emphasis on proactive information and resource sharing between Federal, State and local agencies, private industry, and the general public.

II. Objectives

- A. Provide a tool for agency administrators, fire managers, dispatchers, agency cooperators, and firefighters to correlate fire danger ratings with appropriate fire business decisions in southwest Idaho.
- B. Delineate fire danger rating areas (FDRA's) in southwest Idaho with similar climate, fuels, and topography.
- C. Establish a fire weather-monitoring network consisting of Remote Automated Weather Stations (RAWS) which comply with NWCG NFDRS Weather Station Standards (PMS 426-3).
- D. Determine fire business and adjective fire danger rating break points using Weather Information Management System (WIMS), National Fire Danger Rating System (NFDRS), Fire Family Plus software, and analysis of historical weather and fire occurrence data.
- E. Define roles and responsibilities regarding fire preparedness decisions, manage weather information, and brief fire suppression personnel regarding current and potential fire danger.
- F. Ensure agency administrators, fire managers, cooperating agencies, industry, and the public are notified of the potential fire danger.
- G. Provide guidance to interagency personnel outlining specific daily actions to take at each preparedness level.
- H. Identify seasonal risk analysis criteria and establish general fire severity thresholds.
- I. Identify season-ending events using the Term module of the Rare Event Risk Assessment Process (RERAP).
- J. Develop and distribute fire danger pocket cards to all personnel involved with fire suppression activities within the southwest Idaho Fire Danger Rating Areas.
- K. Identify program needs and suggest improvements for the Fire Danger Operating and Preparedness Plan.

III. Inventory and Analysis

In order to apply a system which will assist managers with fire management decisions, the problems must be inventoried and analyzed to determine the most appropriate system to adequately address the issues.

A. Involved Parties

This plan will affect a wide range of entities. However, they can be grouped into three braod categories:

Agency: Employees of federal, state, and local governments involved in the cooperative effort to suppress wildland fires. This includes BLM, USFS and State of Idaho employees, along with volunteer fire departments and military personnel.

Industry: Organizations that either utilize the natural resources or have permitted activities on federal, state, or private wildlands for commercial purposes. These entities or activities include ranchers, hazardous material disposal sites, railroads, timber harvesting, filming, ski resorts, building construction, etc.

Public: Individuals who use the land for recreational purposes such as off-highway vehicle (OHV) use, camping, hiking, fishing, skiing, firewood gathering, mountain biking, or general travel. This group also includes those living within the wildand/urban interface.

B. Agency, Public, and Industry Interaction

The following matrix demonstrates the differences between the target groups (Agency, Industry, and Public). The ability to regulate, educate, or control a user group will be based upon the interface method and how quickly they can react to the action taken. In addition, each action will result in positive and/or negative impacts to the user groups. Consequently, the decision tool which would be most appropriate would depend upon the sensitivity of the target group to the implementation of the action.

Involved Party	Action	Controllability	Interface Method	Potential Positive Impacts	Potential Negative Impacts	Decision Tool
Agency	Initial Attack (IA) response			Successful IA	Accidents/incidents	Burning Index
	Automatic Dispatch of Initial Attack Resources	Moderate/High	Radio Telephone Fax	Resources effective	Resources not essential for successful IA	Burning Index
	Pre- positioning of Resources		E-mail	Improved IA capability	Financial Logistical	Energy Release Component
	Suspension of Prescribed Fire Projects			Prevent escaped RX fires	Missed opportunity to treat fuels	Energy Release Component
	Extended Staffing			Improved IA capability	Financial Logistical	Burning Index
	Wildland Fire Use			Ecological Benefits	Public Perception	Energy Release Component
Industry	Chainsaw Restrictions/ mechanized equipment restrictions	Low/Moderate	Telephone Mail E-mail Face-to- Face	Fire Prevention	Political Financial	Energy Release Component
	OHV Restrictions		Signs	Fire Prevention	Political Financial	Energy Release Component
Public	Campground / area closures			Fire Prevention	Political Financial	Energy Release Component
	Fuelwood cutting restrictions	Low	Newspaper	Fire Prevention	Political Financial	Energy Release Component
	OHV restrictions		Television Signs Internet	Fire Prevention	Political Financial	Energy Release Component
	Debris Burning /Burn Permit		Face-to- Face	Fire Prevention	Political Financial	Energy Release Component
	Fireworks			Fire Prevention	Political Financial	Energy Release Component
	Fire Restrictions / Burn Permits			Fire Prevention	Political Public Perception	Energy Release Component

C. Fire Danger Rating Areas

The Southwest Idaho fire danger planning area has three Fire Danger Rating Areas (FDRA's). They are identified as Boise Mountains, Snake River and Foothills, and Owyhee Canyonlands. These areas were delineated based on their relatively homogeneous fuels, climate, and topographical characteristics.

1. Boise Mountains Fire Danger Rating Area:

- A. Location: The Boise Mountains FDRA is defined with the following Geographic boundaries: From the point where the Boise National Forest boundary intersects Idaho State highway 20 near Dixie following the Boise Forest boundary west and North along the ridge of the Danskin to Boise front foothills and extending North encompassing the Idaho Department of Lands jurisdictional boundary to its intersection back with the Boise National Forest boundary near Sagehen reservoir. The far northern boundary includes all Boise National Forest administered lands north of Sagehen reservoir including Tripod Mountain and West Mountain within the North Fork Payette river drainage north to near Tamarack Resort. This FDRA includes all lands within the Boise Forest boundary north to Yellowpine and south to Camas reservoir which includes lands west of Pine and Featherville, which are Sawtooth National forest lands protected by the Boise National Forest. This FDRA encompasses approximately 2.2 million acres.
- **B. Fuels:** Fuels within the Boise Mountains FDRA are highly variable and complex. They range from shrub-steppe communities at the lowest elevation to alpine communities at the highest. Low elevation shrub-steppe includes several subspecies of sagebrush along with perennial and non-native annual grasses. These areas are bordered by persistent aspen, ponderosa pine and ponderosa pine/Douglas-fir forest communities which represent the warm, dry extreme of the forested zone. Douglas-fir becomes more prominent as elevation increases and can occur as a co-dominant species with lodgepole pine, grand fir, subalpine fire and western larch. The lower elevation ponderosa pine/Douglas-fir communities were historically fire dependent and frequently exposed to low intensity non-lethal fire events. Aspen occurs as small inclusions in the forested zone but was likely more obvious on the landscape under the historical fire regimes. Fires were historically a mixed fire regime at mid to higher elevations in dry Douglas-fir and warm subalpine fir-Engleman spruce communities. The mixed and lethal complexes were historically visited by fire more infrequently with the effected area being a mix of lethal and non-lethal events which maintained a mosaic of uneven-aged stands across the landscape.
- C. Climate: Climate patterns are typically warm to hot and dry during the summer and fall. In the late spring and summer, moisture from the Gulf of Mexico may move north and combine with warm seasonal temperatures and steep topography to create high-intensity, short duration thunderstorms. Late spring events generally have more precipitation with 24-hour totals often greater than 0.5 inches. Dry lightning is more common during summer and fall and have potential

to create frequent multi-fire events which can exceed local staffing capabilities. Maximum summer daytime temperatures can reach over 100 degrees at lower elevations, with higher elevations in the 80s to 90s. Growing seasons vary greatly from 30 days in the alpine areas to over 150 days in the lower valleys. The Boise Mountains FDRA spans climate classes 2 and 3.

- **D. Topography:** The Boise Mountains FDRA is a landscape which varies greatly with elevations of 2,800 feet in the river canyons to 10,000 feet atop Steel Mountain. Key features include the Boise and Salmon River mountains which are characterized by forested slopes and steep river drainages. Three major landforms dominate this FDRA:
 - 1) High elevation distinctive mountains and valleys formed from alpine glaciations.
 - 2) Lands with sharply defined drainage patterns formed by stream cutting action.
 - 3) Lands formed by volcanic floss
- **E. Fire Occurrence:** From 1956 to 2010 a total of 10,783 fires were recorded within the FDRA burning 3,675,359 acres. Lighting accounts for nearly 80% of fire occurrence in the FDRA. Campfires, debris burning and smoking were the leading human causes. Fires commonly occur from June through October with the months of July and August representing the largest percentage of fire occurrence.

2. Snake River and Foothills Fire Danger Rating Area

- A. Location: The Snake River and Foothills FDRA is bounded by the Idaho Oregon border on the west. The southern boundary generally follows the Snake River from the Idaho/Oregon boundary to Oreana then follows the Bachman Grade to Triangle and continues east-northeast generally along the 4600 foot elevation line of the Owyhee Front to the Bruneau River. The northern boundary begins near Weiser Idaho and follows Hwy 95 to Indian Valley, then generally follows the Little Weiser River to the Payette and Boise National Boundary line where it follows the southern boundary of the Boise Mountains FDRA to the dispatch center boundary. The eastern boundary is the District boundary between the Boise and Twin Falls BLM District's. This FDRA encompasses approximately 3.9 million acres.
- **B. Fuels:** The fuels complex of the Snake River and Foothills FDRA is dominated by perennial and annual grasses. There are salt desert and low elevation shrubs also represented, with the salt desert shrubs occupying lower elevations and low elevation shrubs occupying higher elevations in the FDRA. "These vegetation communities are highly susceptible to invasion of annual grasses and other nonnative species, particularly when heavy livestock grazing occurs during drought periods. This combination of factors in the early twentieth century caused the

establishment of large areas, particularly within the Snake River Plain, to be dominated by annual grasses such as cheat grass, medusahead wildrye, and exotic annual forbs. The resulting reduction in the mean fire return interval for these areas led to their self-perpetuation and expansion into adjacent shrublands (Southwestern Idaho Fire Planning Unit Fire Management Plan Boise BLM September 2005 p. 41-42). The annual grasses are dominated by cheatgrass (Bromus tectorum) and medusahead wildrye (Taeniatherum caput-medusae). Perennial grasses are dominated by perennial montane grasses such as (Gestuca spp., Poa spp., Bromus spp., and Stipa spp.), and seeded grass species such as crested wheatgrass (Agropyron cristatum).

The low elevation areas are dominated by Wyoming big sagebrush (Artemisia tridentate Wyomingensis), basin big sagebrush (Artemisia tridentata tridentate), antelope bitterbrush (Purshia tridentate), winterfat (Krascheninnikovia lanata), and green rabbitbrush. The salt desert shrub areas are dominated by budsage (Artemisia spinescens), cheatgrass (Bromus tectorum), greasewood (Sarcobatus vermiculatus), shadescale (Atriplex confertifolia), salbrushes (Atriplex spp.), and winterfat (Krascheninnikovia lanata).

- C. Climate: The Snake River and Foothills FDRA is in climate class 1. Precipitation is generally 12 inches or less. The FDRA is typified by hot, dry fire seasons. The general air flow during fire season is westerly or southwesterly. However, the Snake River moves through the FDRA in a southeast to northeast direction, which can channel winds. Thunderstorms capable of producing strong and erratic winds are a threat throughout the FDRA during fire season. However, the peak times for thunderstorms are mid-June through mid-August. Due to low elevation and dry conditions typical of the FDRA virga is a common occurrence with thunderstorms.
- **D. Topography:** The Snake River and Foothills FDRA is characterized by flat and rolling terrain. Elevation ranges from a low of approximately 2100 feet on the Snake River near Weiser, to approximately 4000 feet on the higher bluffs within the FDRA. The Snake River Canyon is a major topographic feature of the FDRA. Much of the FDRA is accessible by vehicle because of the flat and rolling nature of terrain within this FDRA. It also includes the King Hill Creek Wilderness Study Area.
- **E. Fire Occurrence:** From 1956 to 2010 a total of 3073 fires were recorded burning a total of 2,049,824 acres. Historically, over 20% of fires in this area are larger than 100 acres with nearly 60% of ignitions being human caused. Equipment use is the most common cause, followed by railroad, debris burning and arson. Fires commonly occur from May through October with June through September being the busiest months.

3. Owyhee Canyonlands Fire Danger Rating Area

- **A. Location:** The Owyhee Canyonlands FDRA is bounded by the Idaho-Nevada border on the south; the Idaho-Oregon border on the west; and the Bruneau River on the east. The northern boundary generally follows the Snake River from the Idaho/Oregon boundary to Oreana then follows the Bachman Grade to Triangle and continues east-northeast generally along the 4600 foot elevation line of the Owyhee Front to the Bruneau River. The FDRA encompasses approximately 3.2 million acres. The FDRA includes approximately 146,000 acres of the Duck Valley Indian Reservation. Most of the remainder of land in this FDRA is owned by the BLM and IDL.
- **B. Fuels:** The fuels complex of the Owyhee Canyonlands FDRA is dominated by juniper woodlands and mid-elevation shrubs in the western portion. The eastern portion is dominated by shrubs (mid-elevation, low-elevation, and salt-desert). The juniper woodlands are dominated by western juniper (Juniperis occidentalis). In some areas, "western juniper woodlands have expanded into mid-elevation shrub-steppe communities, forming dense seral stands, with a depauperate understory of shrubs, forbs, and grasses. In contrast to climax juniper stands, which tend to occur on shallow stony ridge top sites, seral stands occupy deepsoiled loamy sites in swales and valley bottoms". (Southwestern Idaho Fire Planning Unit Fire Management Plan Boise BLM September 2005 p.42).

The mid-elevation shrub areas are dominated by mountain big sagebrush (Artemesia tridentate), low sagebrush (Artemisia arbuscala), and curl-leaf mahogany (Cercocarpus montanus). The low elevation shrub areas are dominated by Wyoming big sagebrush (Artemisia tridentata Wyomingensis), basin big sagebrush (Artemisia tridentata tridentate), and antelope bitterbrush (Purshia tridentate), winterfat (Krascheninnikovia lanata), and green rabbitbrush. The salt desert shrub areas are dominated by budsage (Artemisia spinescens), cheatgrass (Bromus tectorum), greasewood (Sarcobatus vermiculatus), shadescale (Atriplex confertifolia), salbrushes (Atriplex spp.), and winterfat (Krascheninnikovia lanata).

Other fuel types found in the FDRA in coverages of generally less than 5% in the represented Fire Planning Units include annual grasses, perennial grasses, aspen, dry conifers, riparian, and wet/cold conifers.

C. Climate: The Owyhee Canyonlands FDRA is in climate class 1. The FDRA is typified by arid to semi-arid desert and steppe country. The average annual precipitation at weather stations in the middle of the elevation represented in the FDRA is 15 inches. During fire season hot and dry conditions dominate. The general wind flow patterns during fire season are westerly or southwesterly. Thunderstorms capable of producing strong erratic winds are a threat throughout the FDRA during fire season. Large snow accumulations are possible in the higher elevations of the FDRA. However, melting generally occurs sooner in the

Owyhee Mountains than other mountains in Idaho. The peak river flows usually occur in late May and June.

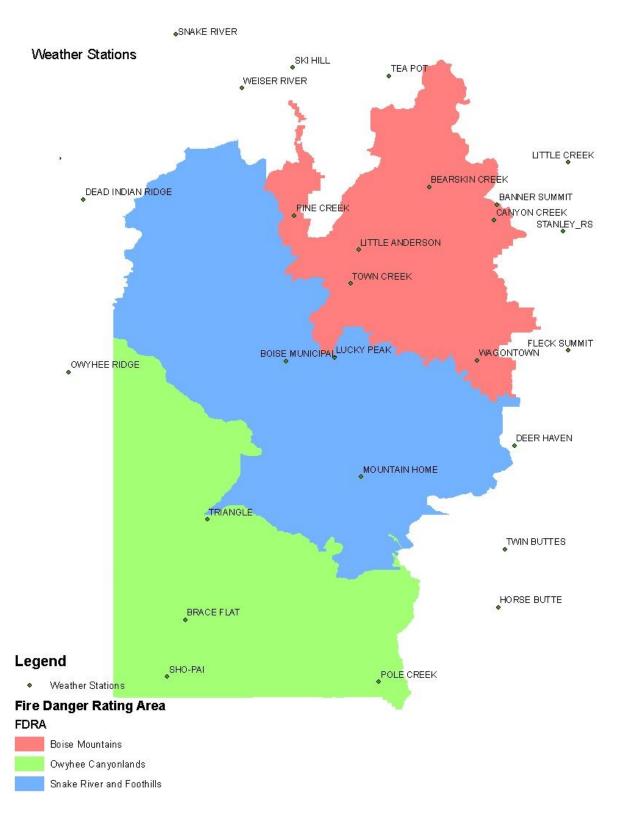
- **D. Topography:** The elevation of the Owyhee Canyonlands FDRA ranges from a low of generally 4000 feet to a high of 8400 feet. The eastern and southern portions of the FDRA are characterized by deep river canyons and large plateau areas. The northwestern portion of the FDRA is dominated by the Owyhee Mountain Range. The terrain throughout the FDRA is largely inaccessible by vehicles. The FDRA includes the following Wilderness Areas: . North Fork Owyhee, Pole Creek, Owyhee River, and Bruneau-Jarbidge.
- **E. Fire Occurrence:** From 1956 to 2010, 362 fires were recorded in the Owyhee Canyonlands Fire Danger Rating Area burning a little more than 290,119 acres. Historically, nearly 60% of fires are caused by lightning with equipment and debris burning as the primary causes of human starts within the FDRA. Nearly 70% of fires occurred in July and August.

4. Weather Stations Description

The Boise National Forest manages five active RAWS: Bearskin, Pine Creek, Little Anderson, Town Creek and Wagon Town. All of these stations comply with NWCG NFDRS Weather Station Standards. The Boise District BLM manages five active RAWS: Dead Indian Ridge, Mountain Home, Brace Flat, Triangle, and Pole Creek. All of these stations comply with NWCG NFDRS Weather Station Standards. Additionally, the Boise District coordinates with the Boise National Weather Service office to maintain the Boise Manual station.

The Pine Creek and Town Creek stations have been combined with the Payette NF managed Weiser River and Skihill stations in WIMS to create a Special Interest Group (SIG) to compute an equally weighted set of fire danger indices representing the Boise Mountains Fire Danger Rating Area. The Dead Indian Ridge, Mountain Home and Horse Butte stations were combined in WIMS to create a SIG representing the Snake River and Foothills FDRA. The Owyhee Ridge, Brace Flat, Triangle and Pole Creek stations were combined to create a SIG for the Owyhee Canyonlands FDRA.

RAWS Locations (Map)



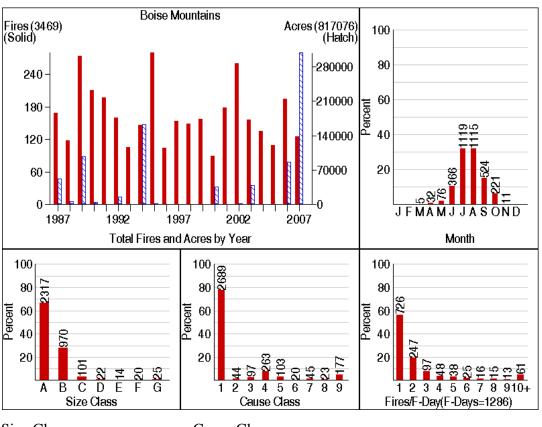
Weather Station Summary (Table)

Station ID	Station Name	Status	Agency/Owner	Elevation	WIMS Data Years
101108	Weiser River	Active	USFS-ID-PAF	3900	1982-present
101220	Teapot	Active	USFS-ID-PAF	5152	1986-present
101221	Bearskin Creek	Active	USFS-ID-BOF	6700	1982-present
101222	Pine Creek	Active	USFS-ID-BOF	5600	1984-present
101223	Ski Hill	Active	USFS-ID-PAF	5600	1987-present
101402	Dead Indian Ridge	Active	BLM-ID-BOD	3570	1990-present
101708	Town Creek	Active	USFS-ID-BOF	4500	1982-present
101710	Little Anderson	Active	USFS-ID-BOF	4560	2001-present
101805	Little Creek	Active	USFS-ID-SCF	4400	1963-present
101809	Stanley	Active	USFS-ID-STF	6286	1960-present
101812	Horton Peak	Active	USFS-ID-STF	8700	1982-present
102601	Boise South (manual station)	Active	BLM-ID-BOD	2838	1975-present
102709	Mountain Home	Active	BLM-ID-BOD	3350	1966-present
102711	Deer Haven	Active	BLM-ID-TFD	5550	1990-present
102712	Wagontown	Active	USFS-ID-BOF	6200	2003-present
102802	Fleck Summit	Active	USFS-ID-STF	7100	1997-present
102903	North Fork	Active	USFS-ID-SNF	2733	1961-present
103205	Horse Butte	Active	BLM-ID-TFD	5000	1983-present
103207	Brace Flat	Active	BLM-ID-BOD	4900	1990-present
103208	Triangle	Active	BLM-ID-BOD	5270	1990-present
103209	Twin Butte	Active	BLM-ID-TFD	3330	1990-present
103210	Pole Creek	Active	BLM-ID-BOD	5660	1990-present
103211	Sho-Pai	Active	BIA-NV-DVA	5315	2005-present
352420	Morgan Mountain	Active	BLM-OR-VAD	3600	1985-present
353612	Grassy Mountain	Active	BLM-OR-BUD	4520	1985-present
353614	Owyhee Ridge	Active	BLM-OR-VAD	4400	1985-present
480109	Snake River	Inactive	NPS	6883	1965-1969

5. Statistical Analysis Fire History

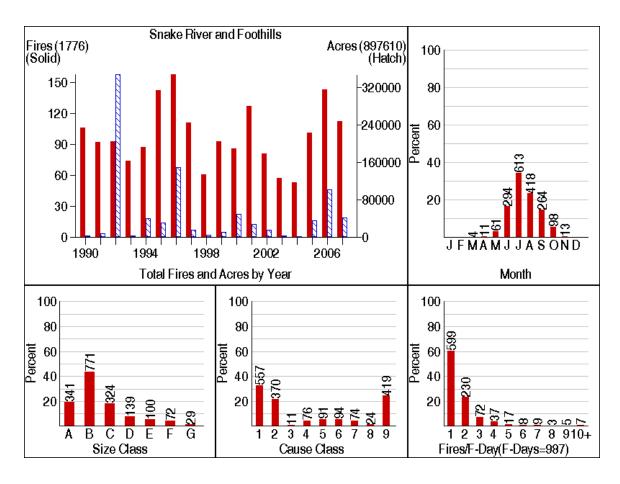
For purposes of this analysis, 21 years (1987-2007) of fire history data was obtained from the three agencies (BLM, USFS, State). BLM fire data was obtained from the Wildland Fire Information web site. USFS fire data was obtained from KCFAST and State of Idaho data was obtained from the Idaho Department of Lands, Coeur d'Alene office. Since all three agencies may have reported the same fire in their respective databases, the fires were cross-referenced and duplicate fires were eliminated (where possible). For the Snake River and Foothills and Owyhee Canyonlands Fire Danger Rating Areas, 18 years of data was collected (1990-2007). This was necessary to accommodate the length of record of the weather stations used in analysis. FireFamily Plus software was utilized to produce statistics and graphs. A more detailed fire occurrence workload analysis (by agency) is in Appendix K.

a) Boise Mountains FDRA



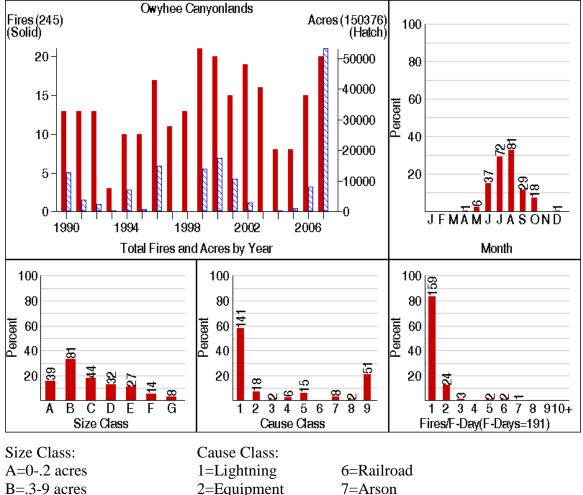
Cause Class:	
1=Lightning	6=Railroad
2=Equipment	7=Arson
3=Smoking	8=Children
4=Campfire	9=Miscellaneous
5=Debris Burning	
	1=Lightning 2=Equipment 3=Smoking 4=Campfire

b) Snake River and Foothills FDRA



Size Class: Cause Class: 1=Lightning 6=Railroad A=0-.2 acres 2=Equipment B=.3-9 acres 7=Arson C=10-99 acres 3=Smoking 8=Children D=100-299 acres 4=Campfire 9=Miscellaneous 5=Debris Burning E=300-999 acres

c) Owyhee Canyonlands FDRA



Size Class:	Cause Class:	
A=02 acres	1=Lightning	6=Railroad
B=.3-9 acres	2=Equipment	7=Arson
C=10-99 acres	3=Smoking	8=Children
D=100-299 acres	4=Campfire	9=Miscellaneous
E=300-999 acres	5=Debris Burning	

Preparedness Level Thresholds

A threshold corresponds to a change in historical fire activity. Preparedness levels differ from adjective fire danger ratings because they take fire history and other locally determined factors into account in addition to weather.

a) The FireFamily Plus software package was used to establish the fire business thresholds. A statistical analysis based on historical weather adjusted for fire activity determines the appropriate staffing index and associated breakpoints for each FDRA. Refer to Appendix J for a detailed summary of the FireFamily plus analysis.

Preparednes	Preparedness Level: FireFamily Plus Analysis Factors and Determination									
Rating Area	RAWS	Data Years Used	Weighting Factor	Fuel Model	NFDRS Index	Climate Break I Ranges	_			
Boise	SIG	1987-		Н	ERC	PL 1	0-13			
Mountains	Weiser River	2007	1.0			PL 2	14-23			
	Skihill		1.0			PL 3	24-33			
	Pine Creek		1.0			PL 4	34-41			
	Town Creek		1.0			PL 5	42+			
Snake River	SIG	1990-		G	ERC	PL 1	0-57			
and Foothills	Mountain Home	2007	1.0			PL 2	58-72			
	Dead Indian Ridge		1.0			PL 3	73-84			
	Horse Butte		1.0			PL 4	85-92			
						PL 5	93+			
Owyhee	SIG	1990-		T	ERC	PL 1	0-5			
Canyonlands	Owyhee Ridge	2007	1.0			PL 2	6-12			
	Brace Flat		1.0			PL 3	13-17			
	Triangle		1.0			PL 4	18-20			
	Pole Creek		1.0			PL 5	21+			

The final preparedness level determination will also incorporate fire activity, fire weather advisories, Haines Index, live fuel moisture and a measure of ignition risk (i.e. LAL). Daily index/component values will be obtained from WIMS and used in preparedness and dispatch level worksheets.

Dispatch Level Thresholds

Fire Business refers to the level of fire activity that occurs at a local unit office. How many days have a fire? How large do these fires become? When does fire activity become a burden to the local suppression forces? Fire Business Thresholds are based on correlations of fire danger climatology and fire occurrence data. We use Fire Business Thresholds for Dispatch Level because climatological breakpoints may not predict fire activity in a timely way. The activity predicted may have already happened. Without fire activity information, breakpoints are often set too high, resulting in activity occurring before the climatological breakpoint predictions indicate.

Dispatch Lev	el: FireFamily	Plus Analy	sis Factors	and Det	erminati	on		
Rating Area	RAWS	Data	Weighting	Fuel	NFDRS	Fire Business		
		Years	Factor	Model	Index	Break Poin	t	
		Used				Ranges		
Boise	SIG	1987-		Н	ERC	Low	0-22	
Mountains	Weiser River	2007	1.0			Moderate	23-39	
	Skihill		1.0			High	40+	
	Pine Creek		1.0					
	Town Creek		1.0					
Snake River	SIG	1996-		A	BI	Low	0-25	
and Foothills	Mountain	2007	1.0			Moderate	26-39	
	Home					High	40+	
	Dead Indian		1.0					
	Ridge							
	Horse Butte		1.0					
Owyhee	SIG	1990-		T	BI	Low	0-38	
Canyonlands	Owyhee Ridge	2007	1.0			Moderate	39-60	
	Brace Flat		1.0			High	61+	
	Triangle		1.0					
	Pole Creek		1.0					

Adjective Fire Danger Rating (AFDR) Breakpoints

Adjective fire danger breakpoints are based on staffing classes (divisions of fire danger) and a staffing index/component (BI or ERC). Adjective ratings will be based upon the seasonal climatic breakpoints. Climatological breakpoints are points on the cumulative distribution of one fire weather/fire danger index without regard to associated fire occurrence/business. For example, the value of the 90th percentile ERC is the climatological breakpoint at which only 10 percent of the ERC values are greater. The percentiles for climatological breakpoints are predetermined by agency directive. The USFS standard of the 90th and 97th percentile break points for adjective fire danger determination will be used for the Boise Mountains FDRA. The BLM standard of the 80th and 95th percentile breakpoints for adjective fire danger rating will be used for the Snake River and Foothills and Owyhee Canyonlands FDRAs. These values have been entered into WIMS.

Five staffing class intervals (1-5) that correspond with five levels of adjective fire danger: low, moderate, high, very high, and extreme will be used for all FDRAs.

Input Information	n for Boise Mounta	Staffing Class and Percentile		
		Break Points		
RAWS	Fuel Model	Staffing Index	90 th	97 th
Weiser River	Н	ERC	47	51
SkiHill	Н	ERC	40	44
Pine Creek	Н	ERC	47	50
Town Creek	Н	ERC	45	50

Input Information FDRA	for Snake River a	Staffing Class ar Break Points	nd Percentile	
RAWS	Fuel Model	Staffing Index	80 th	95th
Mountain Home	G	ERC	82	103
Dead Indian	G	ERC	86	93
Ridge				
Horse Butte	G	ERC	91	97

Input Information	for Owhyee Cany	onlands FDRA	Staffing Class and Percentile		
		Break Points			
RAWS	Fuel Model	Staffing Index	80 th	95th	
Owyhee Ridge	T	ERC	20	22	
Brace Flat	T	ERC	20	24	
Triangle	T	ERC	18	21	
Pole Creek	T	ERC	19	23	

IV. Applications

The National Fire Danger Rating System (NFDRS) utilizes the WIMS processor to manipulate weather data and forecasted data stored in the NIFMID database to produce fire danger ratings for corresponding weather stations (RAWS). NFDRS outputs from the WIMS processor can be used to determine various levels of fire danger rating. The system is designed to calculate worst-case scenario fire danger. NFDRS will be utilized in the following ways for the purpose of this plan:

- The **Preparedness Level** will help agency personnel determine appropriate state of readiness of suppression forces.
- The **Dispatch Level** is a decision tool for dispatchers to assign initial attack forces to reported fires. Dispatch level is a function of ERC for the Boise Mountains FDRA and BI for the Owyhee Canyonlands and Snake River and Foothills FDRAs.
- The third utilization of NFDRS is to compute the Adjective Fire Danger for the purpose of communicating fire danger to public and industrial interests.
- **Fire Restrictions** are addressed in the 2008 Idaho Fire Restrictions Plan which can be downloaded from the Eastern Great Basin Coordination Center website.

The preparedness level worksheet (page 22) will be used to determine the daily preparedness and dispatch levels. The resultant preparedness and dispatch levels for the different FDRAs will be broadcast in conjunction with the morning weather report and documented. The adjective fire danger ratings will be broadcasted and documented in the same manner.

Although fire danger ratings do not prevent human-caused fires, a strong effort should be made to communicate the fire danger as it changes throughout the fire season. The social, political, and financial impacts of wildfires on agency, public, and industrial entities can be far reaching. Loss of life, property, and financial resources can potentially

be associated with any wildfire. As the fire danger fluctuates, agency personnel need to have pre-planned and appropriate responses. These actions should not only focus on appropriate fire suppression, but also incorporate mitigation/education.

A. Preparedness Level

The preparedness level is a five-tier fire danger rating system that will be based on Energy Release Component and indicators of fire business. The fire business indicators used to calculate the preparedness level are large/multiple fire activity, Red Flag Warnings and Fire Weather Watches, Lightning Activity Level, Haines Index, and a Human Caused risk factor. A flow chart (page 22) guides personnel through the process. Several procedures and guidelines are to be followed once the preparedness level has been determined. The breakpoints for the preparedness level are set using an historical analysis (FireFamily Plus) of fire business and its relationship to daily 1300 hour weather observations from RAWS entered into the NIFMID database and processed by WIMS, which calculates the staffing index values (BI, ERC, etc).

Worksheet Instructions:

- 1. Staffing Index Value: Place a checkmark indicating the forecasted staffing index/component range in row one. These indices (forecasted by the Boise Weather Office) are based on the 1300 RAWS observations which are input to the WIMS processor by Boise Dispatch personnel.
- 2. Fire Activity: Fire activity can be defined as any fire that requires the commitment of one or more Agency suppression resources within the Fire Danger Rating Area. Place a checkmark in the appropriate box in row two.
- 3. Red Flag Warning or LAL: Place a checkmark in row three based on the presence of a Red Flag Warning or Fire Weather Watch issued by the National Weather Service and the forecasted Lightning Activity Level.
- 4. Haines Index: Place a checkmark in row four indicating the forecasted Haines Index Ranger.
- 5. Human Ignition Risk Factor: Place a checkmark in row five to indicate the relative risk of human caused ignitions. The Human Ignition Risk Factor is used for high risk times such as holiday weekends, special events, opening of hunting season or other times where an increased risk of ignition is predicted. The other factors should be self explanatory.

Boise Dispatch Center PREPAREDNESS LEVEL WORKSHEET

11121711200 22122 11011101221												
Boise Mountains FDRA ERC Fuel Model H		0-13		14-	-23	24	-33	34	-41		42+	
Snake River and Foothills ERC Fuel Model G	0-57		58-72 73-84		85-92		93+					
Owyhee Canyonlands ERC Fuel Model T		0-5		6-	12	13	-17	18	-20		21+	
ROW 1 ⇒												
LARGE OR MULTIPLE FIRE ACTIVITY		NO ↓	YES ↓	NO ↓	YES ↓	NO ⇒	YES ↓	NO ↓	YES ↓	NO ↓	YES	;
ROW 2 ⇒												
RED FLAG WARNING OR LAL FORECASTED 2-6	NO ⇒	YES ↓	NO ↓	YES ↓	NO ↓	YES ↓	NO ↓	YES ↓	NO ↓		YES ↓	
ROW 3 ⇒												
HAINES INDEX	2-6 ↓	2-4 ↓	5-6 ↓	2-4 ↓	5-6 ↓	2-4 ↓	5-6 ↓	2-4 ↓	5-6 ↓	2-4 ↓	5-6 ↓	
ROW 4 ⇒												
HUMAN IGNITION RISK FACTOR	LOW ↓	HIGH ↓	LOW	HIGH ↓	LOW ↓	HIGH ↓	LOW	HIGH ↓	LOW	HIGH ↓	LOW	HIGH ↓
ROW 5 ⇒												
PREPAREDNESS LEVEL		1		I	l	I	II .	ľ	V		V	







B. Dispatch Level

Agency personnel use the dispatch level (response level) to assign initial attack resources based on pre-planned interagency "Run Cards". Combined with pre-defined Dispatch Response Zones, the Dispatch Level is used to assign an appropriate mix of suppression resources to a reported wildland fire based upon fire danger potential. The dispatch levels are derived from the most appropriate NFDRS index and/or component that correlate to fire occurrence in the FDRA. In the Boise Mountains FDRA the BI was not well correlated with fire occurrence. It was noted that weather stations appeared to be under-representing the wind factor when compared to nearby stations. For this reason, ERC has been determined to be the best index for Dispatch Level. ERC will be used to pre-plan and implement response levels for initial attack until a qualified Incident Commander arrives on scene to validate the need for the dispatched resources. In the Snake River and Foothills and Owyhee Canyonlands FDRAs BI has been determined to be the best choice for dispatch levels.

Dispatch Level Worksheet Boise Dispatch Center

Fire Danger	Index/Component			
Rating Area	and Fuel Model			
Boise Mountains	ERC			
	Fuel Model H	0-22	23-39	40+
Snake River and	BI			
Foothills	Fuel Model A	0-25	26-39	40+
Owyhee	BI			
Canyonlands	Fuel Model T	0-38	39-60	61 +
Dispatch Level		Low	Moderate	High

C. Adjective Fire Danger Rating

1. Adjective Fire Danger Rating Description

In 1974, the Forest Service, Bureau of Land Management and State Forestry organizations established a standard adjective description for five levels of fire danger for use in public information releases and fire prevention signing. For this purpose only, fire danger is expressed using the adjective levels and color codes described below.

Fire Danger Rating and Color Code	Description
Low (L) (Green)	Fuels do not ignite readily from small firebrands although a more intense heat source, such as lightning, may start fires in duff or punky wood. Fires in open cured grasslands may burn freely a few hours after rain, but timber fires spread slowly by creeping or smoldering, and burn in irregular fingers. There is little danger of spotting.
Moderate (M) (Blue)	Fires can start from most accidental causes but, with the exception of lightning fires in some areas, the number of starts is generally low. Fires in open cured grasslands will burn briskly and spread rapidly on windy days. Timber fires spread slowly to moderately fast. The average fire is of moderate intensity, although heavy concentrations of fuel, especially draped fuel, may burn hot. Short-distance spotting may occur, but is not persistent. Fires are not likely to become serious and control is relatively easy.
High (H) (Yellow)	All fine dead fuels ignite readily and fires start easily from most causes. Unattended brush and campfires are likely to escape. Fires spread rapidly and short-distance spotting is common. High-intensity burning may develop on slopes or in concentrations of fine fuels. Fires may become serious and their control difficult unless they are attacked successfully while small.
Very High (VH) (Orange)	Fires start easily from all causes and, immediately after ignition, spread rapidly and increase quickly in intensity. Spot fires are a constant danger. Fires burning in light fuels may quickly develop high intensity characteristics such as long-distance spotting and fire whirlwinds when they burn in heavier fuels.
Extreme (E) (Red)	Fires start quickly, spread furiously, and burn intensely. All fires are potentially serious. Development into high intensity burning will usually be faster and occur from smaller fires than in the very high fire danger class. Direct attack is rarely possible and may be dangerous except immediately after ignition. Fires that develop headway in heavy slash or in conifer stands may be unmanageable while the extreme burning condition lasts. Under these conditions the only effective and safe control action is on the flanks until the weather changes or the fuel supply lessens.

2. Adjective Fire Danger Rating Determination

NFDRS processors automatically calculate the adjective class rating. The adjective rating calculations are keyed off the priority fuel model listed in the station catalog and specified by the user in the SIG. The WIMS processor uses the staffing index (such as ERC or BI) the user associates with the priority fuel model/slope/grass/climate class combination.

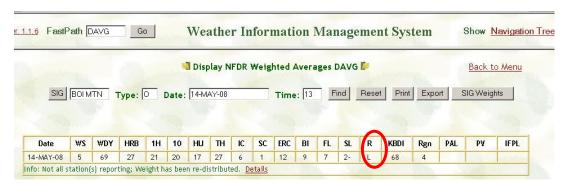
The actual determination of the daily adjective rating is based on the current or predicted value for a user selected staffing index and ignition component using the table below.

Staffing Levels	Adjective Fire Danger Rating				
1-, 1, 1+	L	L	L	M	M
2-, 2, 2+	L	M	M	M	Н
3-, 3, 3+	M	M	Н	Н	VH
4-, 4, 4+	M	Н	VH	VH	Е
5	Н	VH	VH	Е	Е
Ignition Component	0-20	21-45	46-65	66-80	81-100
Component					

Given the same weather inputs to the processor, the adjective fire danger can vary for different fuel models.

The adjective fire danger rating for the Boise Mountains FDRA is a composite of weather data between the Weiser River, SkiHill, Town Creek and Pine Creek stations. A Special Interest Group (SIG) has been created in WIMS that combines the data from these stations using the first priority NFDRS fuel model (H). The data is accessed using the WIMS "DAVG" command and entering the SIG name in the query block. The fire danger for the Snake River and Foothills FDRA is determined by querying the SIG of Mountain Home, Dead Indian Ridge and Horse Butte RAWS using fuel model G. The fire danger for the Owyhee Canyonlands FDRA is determined by querying the SIG of Owyhee Ridge, Pole Creek, Triangle, and Brace Flat RAWS using fuel model T. The example below displays the forecasted 1300 Adjective Fire Danger Rating of Low for May 14th.

When Fire Restrictions are implemented in accordance with the Idaho Fire Restrictions Plan, the Adjective Fire Danger Rating posted on prevention signs will not be dropped below the High level in order to avoid providing conflicting information to the public.



D. Seasonal Risk Analysis

Seasonal risk analysis is a comparison of the historic weather/fuels records with current and forecasted weather/fuels information. Seasonal risk analysis is an on-going responsibility for fire program managers. The most significant indicators of seasonal fire severity BI, ERC, fine fuel loading, and Live Fuel Moisture will be graphically compared with historical maximums and average; this graph will be routinely updated and distributed to fire suppression personnel and dispatch. Seasonal risk analysis information will be used as a basis for pre-positioning critical resources, dispatching resources, and requesting fire severity funding. Specific indicators are most useful to predict fire season severity and duration in the three Fire Danger Rating Areas.

Key Factors and Trends

Fire Activity: The presence (or absence) of fire activity can be tracked and compared to historical occurrences in order to anticipate severity conditions. The Fire Summary module of FireFamily Plus provides an efficient means to compare monthly fire activity.

Live Fuel Moisture: Live woody moisture samples are taken every two weeks throughout the fire season. Conifer and shrubs are sampled at five sites within the Boise Mountains FDRA (Idaho City, Cascade, Lowman,Emmett and Centerville). Sagebrush is sampled at four sites which includeWild West, Kuna, Hammett and Triangle. Triangle is within the Owyhee Canyonlands FDRA and the other three are in the Snake River and Foothills FDRA. Also within the Snake River and Foothills FDRA, conifer, shrub and grass are measured at Bogus Basin.

Fine Fuel Loading: Fine fuel loading is measured annually at three test plots near Kuna Butte, Hammett, and Orchard. These sites fall within the Snake River and Foothills FDRA. These test plots are fenced in non-grazed areas.

NFDRS Indicators: BI and ERC are used as the primary indicators to track seasonal trends of fire danger potential. NFDRS fuel model H has been chosen to represent the Boise Mountains for both BI and ERC. For the Snake River and Foothills FDRA fuel model A was chosen for use with BI and Fuel model C was chosen for use with ERC. Fuel model T has been chosen to represent the Owyhee Mountains FDRA for both BI and ERC.

Weather Trends: Seasonal weather assessments rely upon long-range (30-90 day) forecasts. This information is available in two formats; seasonal long-lead outlooks and 30-90 day outlooks. This information is provided by NOAA.

Drought Indicators: The Keetch-Byrum Drought Index (KBDI) and Palmer Drought Index track soil moisture and have been tailored to meet the needs of fire risk assessment personnel. Current KBDI information is located on the Wildfire Assessment System (WFAS) Internet site. Tracking and comparing 1,000 hour fuel moisture with Fire Family Plus is another method to assess drought conditions.**Normalized Difference Vegetation Index (NDVI):** NDVI data is satellite imagery, which displays vegetative growth and curing rates of live fuels. The Eastern Great Basin Internet site provides

several different current and historical greenness images, which can be a significant contributor to seasonal risk assessments. The WFAS Internet site provides several different ways to analyse greenness imagery.

Season Ending Event: Further study is needed to identify specific combinations of weather parameters that would signal the end of the fire season.

E. Thresholds (Extreme Fire Danger)

Seasonal risk escalation in fuel complexes of Southwest Idaho relies upon a combination of factors, which will ultimately trigger an extreme state of fuel volatility and a high potential for large fire growth or multiple ignition scenarios.

Fire Activity: The occurrence of large/multiple fires is the best indicator severity conditions and the potential for seasonal risk in Southwest Idaho. Any one incident reaching type one or two complexity would be an indicator of severity. Two or more type three incidents within a two to four week period would also be a strong indicator. Three or more initial attack fires in the same day indicate a point where resources are scarce. A progressive approach to assessing seasonal risk will prepare the local unit for these occurrences and the necessary tools will already be in place.

Live Fuel Moisture: (Sagebrush): An analysis of Live Fuel Moisture samples from 2002-2010 fire season months from June-September indicate the woody fuel moisture of sagebrush in the Snake River and Foothills FDRA fluctuates between 184% (June) to 37% (August). At extreme low fuel moisture values Sagebrush may go into dormancy. A new sampling site was implemented in the Owyhee Canyonlands FDRA (Triangle site) in 2009. Fuel moistures measure 233% to 92%. In general, Live Fuel Moistures of less than 100% indicate potential for extreme fire behavior, especially if the live fuels have been exposed to ongoing drought conditions.

Live Fuel Moisture: (Conifer): Live woody fuel moisture of conifers in the Boise Mountains FDRA from 2004-2010 fire season months from June-September fluctuated between 300% and 57%. Live woody fuel moisture of conifers in the Snake River and Foothills FDRA measured between 165% and 50%.. It is important to note that the 2006 and 2007 seasons can be categorized as record setting for total acres burned. Fuel Moistures below 100% indicate potential for extreme fire behavior.

Live Fuel Moisture: (Shrub): Live woody fuel moisture of shrubs (huckleberry, ceanothus, Ribes spp.) during fire season months from June-September in the Boise Mountains FDRA ranged between 300% and 70%. Fuel Moistures below 100% indicate potential for extreme fire behavior.

Fine Fuel Loading: There has been one test site located in the Snake River and Foothills FDRA (Orchard site)which was established in 1996. In 2010 two additional sites were established (Hammett and Kuna Butte). The fuel load calculation includes cheatgrass, litter, and forbs. Fuel load determinations are made on an annual basis, typically in early July, and compared to historical averages in order to determine the potential intensity of fires. The 11 year average fine fuel loading (1996-2010 excluding 2003, 2006-2008) was 3739 total pounds per acre.

NFDRS Thresholds: The BI (Fuel Model A) threshold for extreme fire potential in the Snake River and Foothills FDRA is 40. The BI (Fuel Model T) threshold for extreme fire potential in the Owyhee Canyonlands FDRA is 62. The ERC (Fuel Model H) threshold for extreme fire potential in the Boise Mountains FDRA is 42. The ERC (Fuel Model G) threshold for extreme fire potential in the Snake River and Foothills FDRA is 93. The ERC (Fuel Model T) threshold for extreme fire potential in the Owyhee Canyonlands is 70. Early and late-season readings that trend above average may indicate an extension of the normal fire season.

Weather Thresholds: The observable weather factors that contribute to large fires and the potential for extreme fire behavior can be determined from the same percentiles determined from NFDRS thresholds. Any of these factors significantly increase the potential for extreme fire behavior and large fire growth. Any combination of these factors will increase the risk.

Drought Indicators: Palmer Drought Index graphics display current drought conditions while KBDI values of 500-800 indicate the potential for rapid curing and drying of the fine fuels and potential for live fuel moisture to drop. The 1,000-hour fuel moisture is also a good drought indicator. Values between six and ten percent indicate the potential risk for extreme burning conditions.

NDVI: An analysis of this imagery will assist in the assessment of current fuel moisture conditions and provide historical as well as average greenness comparisons. The Windisp 3 software (WFAS Internet site) program is utilized to develop detailed, region-specific greenness maps.

F. Fire Danger Pocket Cards

The Fire Danger Pocket Card is a tool, which can aid fire suppression personnel to interpret NFDRS outputs and understand local fire danger thresholds for a local area. Pocket cards can relate current NFDRS outputs with the historical average and worst-case values in a specific geographic location. Visiting resources can use the pocket card to familiarize themselves with local fire danger conditions.

Burning Index was used to develop the pocket card for the Snake River and Foothills FDRA and the Owyhee Canyonlands FDRA because it can be related to fire controllability (Deeming et al. 1978). Fuel Model A was chosen as the best fit with BI for the Snake River and Foothills FDRA and Fuel model T was chosen as the best fit with BI for the Owyhee Canyonlands FDRA. It was noted that weather stations within the Boise Mountains FDRA appeared to be under-representing the wind speed compared to

neighboring stations. For this reason (until further study of this issue can be done) ERC was chosen for use in developing a pocket card for this FDRA because wind is not a factor in the calculation of ERC. NFDRS fuel model H was selected as it provided the best fit with ERC for fire danger rating in the Boise Mountains FDRA. Refer to Appendix H for an example.

G. Roles and Responsibilities

Fire Danger Operating and Preparedness Plan: The Boise Dispatch Center Manager will ensure that necessary amendments or updates to this plan are complete. Updates to this plan will be made at least every two years and approved by the line officers (or delegates) from each agency. Revised copies will be distributed to the individuals on the primary distribution list.

Suppression Resources: During periods when local preparedness levels are High to Extreme, the Fire Management Officers from each agency will strive to achieve 100% Most Efficient Level (MEL). This may require the pre-positioning of suppression resources. The FMO/AFMO from each agency will also determine the need to request/release off unit resources or support personnel throughout the fire season.

Duty Officer: For the purposes of this plan, a Duty Officer from each agency will be identified to the Boise Interagency Dispatch Center. The Duty Officer is a designated fire operations specialist, who provides input and guidance regarding preparedness and dispatch levels. It is the Duty Officer's role to interpret and modify the daily preparedness and dispatch levels as required by factors not addressed by this plan. Modifications of the preparedness and/or dispatch levels must be coordinated through the Dispatch Center Manager. The Duty Officer will keep their respective agency's fire and management staff updated (as needed).

Fire Weather Forecasting: Daily fire weather forecasts will be developed by the National Weather Service, Boise Fire Weather Forecast Office, and posted on the Internet and in WIMS for the Boise Interagency Dispatch Center to retrieve.

NFDRS Outputs and Indices: The Boise Dispatch Manager will ensure that the daily fire weather forecast (including NFDRS indices) is retrieved and that the daily preparedness, dispatch, and adjective levels are calculated and distributed.

Risk Analysis and Information: The FMO from each agency will ensure that seasonal risk assessments are conducted during the fire season. The risk analysis will include information such as live fuel moisture, 1,000-hour fuel moisture, fuel loading, NFDRS (BI/ERC) trends, NDVI imagery, and other pertinent data. This information will be distributed to agency staff and the Boise Dispatch Center Manager. The Center Manager and AFMO's will ensure information is posted at fire suppression duty stations.

Weather Station Maintenance: The Remote Sensing Fire Weather Support Unit (RSFWU) located at the National Interagency Fire Center (NIFC) maintains and calibrates the Boise BLM RAWS stations on an annual basis. They also provide the first responder services for malfunctions of the these stations

Two of the Boise NF RAWS stations, Town Creek and Wagontown, are on a Modified Maintenance Agreement which means the annual maintenance is completed by the RSFWU. The local AFMO in which the station is located is responsible for the first responder services. The three other stations, Bearskin, Pine Creek and Little Anderson, are located on the northern part of the forest are on the Depot Maintenance Agreement which means the RSFWU provides the telephone support and component exchange. The local unit AFMO is responsible for the completion of the annual maintenance and any first responder malfunctions. Guy Blom and Mike Becktold will be the first responders for maintenance of the RAWS on the Boise National Forest.

Idaho Department of Lands does not currently own any RAWS within the study area.

WIMS Access, Daily Observations, and Station Catalog Editing: The Boise Dispatch Center, Assistant Center Manager, Intel is listed as the station owner for all Boise District BLM and Boise National Forest RAWS. The owner maintains the WIMS Access Control List (ACL). The station owner will also ensure appropriate editing of the RAWS catalogs and observations.

Preparedness, Dispatch and Adjective Level Guidelines: Each agency's fire management staff along with the Boise Dispatch Center Manager will be responsible for establishing and reviewing the preparedness, dispatch and adjective level guidelines on an annual basis (as a minimum).

Public and Industrial Awareness: Education and mitigation programs will be implemented by agency Public Information Officers, Law Enforcement Officers, FMO's, AFMO's, Fire Wardens, Fire Prevention Technicians and Fire Education/Mitigation Specialists based on Preparedness Level Guidelines and direction provided by the agency's FMO and Duty Officer.

NFDRS and **Adjective Fire Danger Break Points:** A FDOP team will review weather and fire data at least every two years (when the FDOP is re-analyzed). The team will ensure that the breakpoints reflect the most accurate information with the concurrence of the FMO's.

Fire Danger Pocket Cards: The Dispatch Center Manager and FMO's will ensure the pocket card is prepared at least every two years and is in compliance with NWCG and/or agency standards. The card will be distributed to all interagency, local and incoming firefighters and overhead. The pocket card will be posted on the Boise Interagency Dispatch Center and National Wildfire Coordinating Group (NWCG) web sites. Fire suppression supervisors will utilize the pocket card to train and brief suppression personnel and ensure that it is posted at their respective fire stations.

V. Program Improvements

A. Training

Provide FDOP training to cooperators

Provide annual refresher training to personnel identified as first responders to RAWS malfunctions

Put all Boise NF RAWS on full ride maintenance contract

Provide Pocket Card training at annual fireline refreshers

Encourage agency fire suppression supervisors to attend NFDRS (S-491) training

B. RAWS

Test a new site for the Bearskin RAWS. It is currently inaccessible for repairs in early spring and is frequently down for long periods of time.

Investigate and correct under-representation of wind at Boise NF owned RAWS

Contract with RSFWSU for modified maintenance of all Boise NF owned RAWS stations

C. Technology and Information Management

Improve our understanding of local season ending event criteria and use the Rare Event Risk Assessment (RERAP) software program to develop term files based on this information.

D. Future additions to this plan

Identify thresholds for initiation of increased prevention efforts, issuance of burn permits and fire restriction criteria.

Appendix A – Team Members

Name Bob Narus

Title Fire Education and Mitigation Specialist

Agency Bureau of Land Management

Office Boise District

Name Dan Christman

TitleResource Supervisor - FireAgencyIdaho Department of LandsOfficeSouthwest Supervisory Area

Name Tami Parkinson

Title Assistant Forest Fire Management Officer

Agency US Forest Service **Office** Boise National Forest

Name Rex Miller

Title Assistant Fire Management Officer

Agency US Forest Service

Office Boise National Forest, Lowman Ranger District

Name Albert Linch

Title Assistant Fire Management Officer

Agency US Forest Service

Office Boise National Forest, Mountain Home Ranger District

Name Kathy Geier-Hayes
Title Fire Ecologist
Agency US Forest Service
Office Boise National Forest

Name Stephaney Church Title Center Manager

Agency US Forest Service, Interagency
Office Boise Interagency Dispatch Center

2010 & 2011 Edits were made by:

Name Leigh Ann Hislop
Title Intelligence Dispatcher
Agency Boise District BLM

Office Boise Interagency Dispatch Center

Appendix B – Primary Distribution List

Name	Title	Agency	Mailing Address	E-mail
Aden Seidlitz	District	BLM	Boise District BLM	aseidlitz@blm.gov
	Manager		3948 Development Ave	
			Boise, ID 83705	
Cecilia	Forest	USFS	Boise National Forest	cseesholtz@fs.fed.us
Seesholtz	Supervisor		1249 South Vinnell Way,	
			Ste 200	
			Boise, ID 83709	
Steve Douglas	Area Manager	IDL	Idaho Department of Lands	sdouglas@idl.idaho.gov
			8355 W. State Street	
			Boise, ID 83714	
Dan Christman	Area Manager	IDL	Idaho Department of Lands	dchristman@idl.idaho.gov
	Resource		8355 W. State Street	
	Supervisor		Boise, ID 83714	
Andy Delmas	Fire	BLM	Boise District BLM	adelmas@blm.gov
	Management		3948 Development Ave	
	Officer		Boise, ID 83705	
Len Spain	Assistant Fire	BLM	Boise District BLM	lspain@blm.gov
	Management		3948 Development Ave	
	Officer		Boise, ID 83705	
Bob Shindelar	Forest Fire	USFS	Boise National Forest	bshindelar@fs.fed.us
	Management		1249 South Vinnell Way,	
	Officer		Ste 200	
			Boise, ID 83709	
Lance Carbone	Forest Planner	USFS	Boise National Forest	lcarbone@fs.fed.us
			1249 South Vinnell Way,	
			Ste 200	
			Boise, ID 83709	
	Deputy	USFS	Boise National Forest	sdjohnson01@fs.fed.us
Sean Johnson	ForestFire		1249 South Vinnell Way,	
	Management		Ste 200	
	Officer		Boise, ID 83709	
Jill Leguineche	Center	USFS	Boise Dispatch Center	jleguineche@fs.fed.us
	Manager		3948 Development Ave	
			Boise, ID 83705	
	1			

Appendix C – Glossary

Adjective Rating-A public description of the relative severity of the current fire danger situation.

Climatological Breakpoints- Points on the cumulative distribution of one fire weather/fire danger index without regard to associated fire occurrence/business. They are sometimes referred to as excedence thresholds.

Equilibrium Moisture Content- The moisture content that a fuel particle will attain if exposed for an infinite period in an environment of constant temperature and humidity. When a fuel particle has reached its equilibrium moisture content, the net exchange of moisture between it and its environment is zero.

Fire Business Thresholds- Values of one or more fire weather/fire danger indexes that have been statistically related to occurrence of fires (fire business). Generally, the threshold is a value or range of values where historical fire activity has significantly increased or decreased.

Fire Danger- The resultant descriptor of the combination of both constant and variable factors that affect the ignition, spread, and control difficulty of control of wildfires on an area.

Fire Danger Continuum- The range of possible values for a fire danger index or component, given a set of NFDRS parameters and inputs.

Fire Danger Rating- A system that integrates the effects of existing and expected states of selected fire danger factors into one or more qualitative or numeric indices that reflect an areas protection needs.

Fire Danger Rating Area- A geographic area relatively homogeneous in climate, fuels and topography, tens of thousands of acres in size, within which the fire danger can be assumed to be uniform. Its size and shape is primarily based on influences of fire danger, not political boundaries. It is the basic, on the ground unit for which unique fire danger decisions are made based of fire danger ratings. Weather is represented by one or more NFDRS weather (RAWS) stations.

Fire Weather Forecast Zone- A grouping of fire weather forecast stations that experience the same weather change or trend. Zones are developed by the National Weather Service to assist NWS production of fire weather forecasts or trends for similar stations. Fire weather forecast zones are best thought of as a list of similar weather stations, rather than an area on a map.

Fuel Model- A simulated fuel complex for which all fuel descriptions required by the mathematical fire spread model have been supplied.

Staffing Level- The basis for decision support for daily staffing of initial attack resources and other activities; a level of readiness and an indicator of daily preparedness.

Appendix D – WIMS User ID's

Name	WIMS User ID	Level of Access
Leigh Ann Hislop	FS7129/BLM1302	Station Owner
Jill Leguineche	BLM1733	Data Entry/Station Edit
Cathy Baird	FS7257	Data Entry/Edit
Carol Field	BLM1928	Data Entry/Edit
Mark Rich	BLM1938	Data Entry/Edit
James Shanafelt	BLM1934	Data Entry/Edit
Cindi DelCurto	BLM1933	Data Entry/Edit
Christopher Miller	FS7404	Data Entry/Edit
Al Mebane	TBA	Data Entry/Edit

Appendix E – Weather Station Catalogs (Active RAWS Only)

Type: 4 (RAWS S NFDRS) Create/Mod Date: 01-Mar-2011 Obs Time/Z: 13/MST Assoc Man: Prev Stn: Fost Zone: 401 State: 16-ID County: 003-Adams Lat/Lon: 44 50 16, 116 25 40 Obs Agy: 1 (USDA FS) Unit: PAYETTE Mnemonic: PAF FS Reg: 4 Fuel Stk: Wdy FM Mea: Site: 2 Elev: 3889 Asp: 4 Ann Prec: 25.00 Season: Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1 Wind Spd code: 1 KBDI: 100 One/Ten Fl: N User: FS7165 Acc Lst: PAF P ** 78 NFDRS Only ** 88 S G C Staffing Idx Breakpnts r H Greenup S l r l Low High i FM S Herb Date Date b p s i SI DC SI% Val SI% Val 1	Station: 101108 Name: WEISRV NESDIS: 325E60D6					
State: 16-ID County: 003-Adams	13/MST		os Time/Z:			
25 40 Obs Agy: 1 (USDA FS) Unit: PAYETTE	ASSOC Man.	riev scii rest zone. 401				
Fuel Stk:	25 40					
Ltng scale: 1.00	= =) Unit: PAYETTE Mnemonic: PAF	FS Reg:			
P ** 78 NFDRS Only ** 88 S G C Staffing Idx Breakpnts r H	Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1					
r H Greenup S 1 r 1 Low High i FM S Herb Date Date b p s i SI DC SI% Val SI% Val	User: FS7165 Acc	Lst: PAF				
325E60D6 9 Rain Accumulation, Inches PC 325E60D6 10 Windspeed, Miles per Hour US 325E60D6 11 Wind Direction, Degrees UD 325E60D6 12 Air Temperature, Standard Placement, Deg TA 325E60D6 13 Fuel Temperature, Degrees Fahrenheit MT 325E60D6 14 Relative Humidity, Percent XR 325E60D6 15 Battery Voltage, volts VB 325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP	r H i FM S Herb Date 1 7C F 12-nov-10 2 7G F 12-nov-10 3 7C F 12-nov-10 4 7H F 12-nov-10	Greenup S l r l Low High Date b p s i SI DC SI% Val SI% Val				
325E60D6 10 Windspeed, Miles per Hour US 325E60D6 11 Wind Direction, Degrees UD 325E60D6 12 Air Temperature, Standard Placement, Deg TA 325E60D6 13 Fuel Temperature, Degrees Fahrenheit MT 325E60D6 14 Relative Humidity, Percent XR 325E60D6 15 Battery Voltage, volts VB 325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP						
325E60D6 12 Air Temperature, Standard Placement, Deg TA 325E60D6 13 Fuel Temperature, Degrees Fahrenheit MT 325E60D6 14 Relative Humidity, Percent XR 325E60D6 15 Battery Voltage, volts VB 325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP	325E60D6 10	Windspeed, Miles per Hour	US			
325E60D6 14 Relative Humidity, Percent XR 325E60D6 15 Battery Voltage, volts VB 325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP						
325E60D6 15 Battery Voltage, volts VB 325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP						
325E60D6 17 Fuel Moisture, Percent MM 325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP						
325E60D6 18 Wind Direction, Peak, Degrees UX 325E60D6 19 Windspeed, Peak, Miles per Hour UP						
325E60D6 19 Windspeed, Peak, Miles per Hour UP						
	325E60D6 10					
	325E60D6 20	Solar Radiation, watts per meter squared				

Station: 101221 Name: BEARSKIN NESDIS: 3241D254

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 13/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 403

State: 16-ID County: 085-Valley Lat/Lon: 44 23 0,

115 30 0

Obs Agy: 1 (USDA FS) Unit: BOISE NF Mnemonic: BOF FS

Reg: 4

Fuel Stk: Wdy FM Mea: Site: 2 Elev: 6700 Asp: 4 Ann Prec: 33.00 Season:

Site: 2 Elev: 6700 Asp: 4 Ann Prec: 33.00 Season: Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

Ρ	* *	78 NFDRS Only **	88	S	G	С	Staf	fir	ng Id	dx Bi	reakr	onts
r	Н	Greenup	S	1	r	1			Lo	WC	H	igh
i	FM S	Herb Date Date	b	р	S	i	SI	DC	SI%	Val	SI%	Val
-				-	-	-						
1	7G F	01-jan-11 06-jun-1	0 _	2	Р	3	EC	5	90	76	97	82
2	7G F	01-jan-11 06-jun-1	0 _	2	Ρ	3	BI	5	90	66	97	76
3	7H F	01-jan-11 06-jun-1	0 _	2	Р	3	ΒI	5	90	29	97	33

NESDIS	S#	Description	SHEF
3241D254	9	Rain Accumulation, Inches	PC
3241D254	10	Windspeed, Miles per Hour	US
3241D254	11	Wind Direction, Degrees	UD
3241D254	12	Air Temperature, Standard Placement, Deg	TA
3241D254	13	Fuel Temperature, Degrees Fahrenheit	MT
3241D254	14	Relative Humidity, Percent	XR
3241D254	15	Battery Voltage, volts	VB
3241D254	17	Fuel Moisture, Percent	MM
3241D254	18	Wind Direction, Peak, Degrees	UX
3241D254	19	Windspeed, Peak, Miles per Hour	UP
3241D254	20	Solar Radiation, watts per meter squared	RD

Station: 101222 Name: PINE CREEK NESDIS: 3241DC86

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 13/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 403

State: 16-ID County: 085-Valley Lat/Lon: 44 15 0,

116 11 0

Obs Agy: 1 (USDA FS) Unit: BOISE NF Mnemonic: BOF FS

Reg: 4

Fuel Stk: Wdy FM Mea:
Site: 2 Elev: 5600 Asp: 4 Ann Prec: 27.00 Season: Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

P	**	78 NFDRS Only **	88	S	G	С	Staf	ffir	ng I	dx B	reak	onts
r	Н	Greenup	S	1	r	1			Lo	WC	Η:	igh
i	FM S	Herb Date Date	b	р	S	i	SI	DC	SI%	Val	SI%	Val
-				_	-	-						
1	7G F	01-jan-11 10-jun-1	0	2	Р	3	EC	5	90	83	97	90
2	7G F	01-jan-11 10-jun-1	0 _	2	Ρ	3	ΒI	5	90	55	97	62
3	7H F	01-jan-11 10-jun-1	0 _	2	Р	3	ΒI	5	90	24	97	27
4	7H F	01-jan-11 10-jun-1	0 _	2	Р	3	EC	5	90	46	97	50

NESDIS	S#	Description	SHEF
3241DC86	9	Rain Accumulation, Inches	PC
3241DC86	10	Windspeed, Miles per Hour	US
3241DC86	11	Wind Direction, Degrees	UD
3241DC86	12	Air Temperature, Standard Placement, Deg	TA
3241DC86	13	Fuel Temperature, Degrees Fahrenheit	MT
3241DC86	14	Relative Humidity, Percent	XR
3241DC86	15	Battery Voltage, volts	VB
3241DC86	17	Fuel Moisture, Percent	MM
3241DC86	18	Wind Direction, Peak, Degrees	UX
3241DC86	19	Windspeed, Peak, Miles per Hour	UP
3241DC86	20	Solar Radiation, watts per meter squared	RD

Station: 101402 Name: DEAD INDIAN RIDGE NESDIS: 3250B2D6

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 12/MST

Assoc Man: 102601 Prev Stn: ____ Fcst Zone: 400

State: 16-ID County: 087-Washington Lat/Lon: 44 19 9,

117 10 6

Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS

Reg: 4

Fuel Stk: Wdy FM Mea:
Site: 3 Elev: 3570 Asp: 3 Ann Prec: 20.00 Season: Ltng scale: .13 Hum code: 2 Temp code: 1 Pres code: 1

Ρ	* *	78 NFDRS (Only **	88	S	G	С	Stai	ffir	ng Id	dx Bi	reakp	onts
r	Н		Greenup	S	1	r	1			Lo	WC	H	igh
i	FM S	Herb Date	Date	b	р	s	i	SI	DC	SI%	Val	SI%	Val
_				-	_	-	_						
1	7A F	01-jan-11	12-apr-10)	2	Α	2	ΒI	5	80	37	95	47
2	7T F	01-jan-11	12-apr-10	_	2	Α	2	ΒI	5	80	60	95	78
3	7G F	01-jan-11	12-apr-10	_	2	Α	2	ΒI	5	80	74	95	94
4	7C F	01-jan-11	12-apr-10) —	2	Α	2	EC	5	80	20	95	22

NESDIS	S#	Description	SHEF
3250B2D6	9	Rain Accumulation, Inches	PC
3250B2D6	10	Windspeed, Miles per Hour	US
3250B2D6	11	Wind Direction, Degrees	UD
3250B2D6	12	Air Temperature, Standard Placement, Deg	TA
3250B2D6	13	Fuel Temperature, Degrees Fahrenheit	MT
3250B2D6	14	Relative Humidity, Percent	XR
3250B2D6	15	Battery Voltage, volts	VB
3250B2D6	17	Wind Direction, Peak, Degrees	UX
3250B2D6	18	Windspeed, Peak, Miles per Hour	UP
3250B2D6	19	Solar Radiation, watts per meter squared	RD

Station: 101708 Name: TOWN CREEK NESDIS: 3241CFF0

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 13/MST

Assoc Man: ____ Prev Stn: ___ Fcst Zone: 404

State: 16-ID County: 015-Boise Lat/Lon: 43 56 37,

115 55 0

Obs Agy: 1 (USDA FS) Unit: BOISE NF Mnemonic: BOF FS

Reg: 4

Fuel Stk: _____ Wdy FM Mea: _____ Site: 3 Elev: 4500 Asp: 6 Ann Prec: 25.00 Season: Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

P	* *	78 NFDRS Only **	88	S	G	С	Staf	fir	ng Id	dx Bi	reakp	onts
r	Н	Green	nup S	1	r	1			Lo	WC	Н	lgh
i	FM S	Herb Date Da	ate b	р	S	i	SI	DC	SI%	Val	SI%	Val
-				_	_	_						
1	7G F	01-jan-11 10-jur	n-10 _	3	Р	3	EC	5	90	78	97	87
2	7G F	01-jan-11 10-jur	n-10 _	3	Ρ	3	ΒI	5	90	69	97	77
		01-jan-11 10-jur										
		01-jan-11 10-jur										

NESDIS	S#	Description	SHEF
3241CFF0	9	Rain Accumulation, Inches	PC
3241CFF0	10	Windspeed, Miles per Hour	US
3241CFF0	11	Wind Direction, Degrees	UD
3241CFF0	12	Air Temperature, Standard Placement, Deg	TA
3241CFF0	13	Fuel Temperature, Degrees Fahrenheit	MT
3241CFF0	14	Relative Humidity, Percent	XR
3241CFF0	15	Battery Voltage, volts	VB
3241CFF0	17	Fuel Moisture, Percent	MM
3241CFF0	18	Wind Direction, Peak, Degrees	UX
3241CFF0	19	Windspeed, Peak, Miles per Hour	UP
3241CFF0	20	Solar Radiation, watts per meter squared	RD

Station: 101710 Name: LITTLE ANDERSON NESDIS: 326BE772

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 403

State: 16-ID County: 015-Boise Lat/Lon: 44 5 28,

115 52 50

Obs Agy: 1 (USDA FS) Unit: BOISE NF Mnemonic: BOI FS

Reg: 4

Fuel Stk: Wdy FM Mea:
Site: 2 Elev: 4560 Asp: 5 Ann Prec: 23.00 Season: Ltng scale: Hum code: 2 Temp code: 1 Pres code: 1 Wind Spd code: 1 KBDI: One/Ten Fl: N

P	**	78 NFDRS Only	** 88	3 S	G	С	Staf	fir	ng Id	dx Bi	reakp	nts
r	Н	Gr	eenup S	5 1	r	1			Lo	W	Hi	gh
i	FM S	Herb Date	Date b	ор	S	i	SI	DC	SI%	Val	SI%	Val
-					-	_						
1	7G F	01-jan-11 01-	jun-10	2	Р	3	EC	5	90	85	97	90
2	7G F	01-jan-11 01-	jun-10 -	2	Ρ	3	ΒI	5	90	58	97	62
3	7H F	01-jan-11 01-	jun-10 -	2	Ρ	3	ΒI	5	90	25	97	28
4	7H F	01-jan-11 01-	jun-10 _	_ 2	Р	3	EC	5	90	48	97	51

NESDIS	S#	Description	SHEF
326BE772	9	Rain Accumulation, Inches	PC
326BE772	10	Windspeed, Miles per Hour	US
326BE772	11	Wind Direction, Degrees	UD
326BE772	12	Air Temperature, Standard Placement, Deg	TA
326BE772	13	Fuel Temperature, Degrees Fahrenheit	MT
326BE772	14	Relative Humidity, Percent	XR
326BE772	15	Battery Voltage, volts	VB
326BE772	17	Fuel Moisture, Percent	MM
326BE772	18	Soil Moisture, Tension, Centibars	MS
326BE772	19	Soil Temperature, Degrees Fahrenheit	TG
326BE772	20	Soil Moisture, Tension, 2nd Sensor, Cent	MS
326BE772	21	Soil Temperature, 2nd sensor, Degrees Fa	TG
326BE772	22	Soil Temperature, 3rd sensor, Degrees Fa	TG
326BE772	23	Wind Direction, Peak, Degrees	UX
326BE772	24	Windspeed, Peak, Miles per Hour	UP

Station: 102601 Name: BOISE SOUTH NESDIS: Type: 2 (Man NFDRS) Create/Mod Date: 16-Mar-2011 Obs Time/Z: 13/MST Assoc Man: ____ Prev Stn: ____ Fcst Zone: 408 Lat/Lon: 43 34 0, State: 16-ID County: 001-Ada 116 12 3 Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS Reg: 4 Fuel Stk: Wdy FM Mea: Site: 1 Elev: 2838 Asp: 0 Ann Prec: 12.11 Season: Ltng scale: .30 Hum code: 2 Temp code: 1 Pres code: 1 Wind Spd code: 1 KBDI: 100 One/Ten Fl: N P ** 78 NFDRS Only ** 88 S G C Staffing Idx Breakpnts r H Greenup Slrl Low High i FM S Herb Date Date b p s i SI DC SI% Val SI% Val 1 7A F 01-jan-11 23-mar-10 _ 1 A 1 BI 5 80 41 95 48 2 7T F 01-jan-11 23-mar-10 _ 1 A 1 BI 5 80 64 95 82 3 7G F 01-jan-11 23-mar-10 _ 1 A 1 BI 5 80 77 95 94 NESDIS S# Description SHEF

Station: 102709 Name: MOUNTAIN HOME NESDIS: 3252C1B2

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 408

State: 16-ID County: 039-Elmore Lat/Lon: 43 1 42,

115 52 12

Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS

Reg: 4

Fuel Stk: Wdy FM Mea:
Site: 1 Elev: 3350 Asp: 0 Ann Prec: 10.91 Season: 4

Ltng scale: .10 Hum code: 2 Temp code: 1 Pres code: 1

P	* *	78 NFDRS O	nly **	88	S	G	С	Staf	ffir	ng Id	dx Bi	reakj	onts
r	Н		Greenup	S	1	r	1			Lo	WC	H	igh
i	FM S	Herb Date	Date	b	р	s	i	SI	DC	SI%	Val	SI%	Val
_				_	_	_	_						
1	7A F	01-jan-11	01-apr-10		1	А	1	ΒI	5	80	46	95	57
2	7T F	01-jan-11	01-apr-10		1	Α	1	ΒI	5	80	72	95	93
3	7G F	01-jan-11	01-apr-10		1	Α	1	ΒI	5	80	82	95	104
4	7C F	01-jan-11	01-apr-10	_	1	Α	1	EC	5	80	23	95	24

NESDIS	S#	Description	SHEF
3252C1B2	9	Rain Accumulation, Inches	PC
3252C1B2	10	Windspeed, Miles per Hour	US
3252C1B2	11	Wind Direction, Degrees	UD
3252C1B2	12	Air Temperature, Standard Placement, Deg	TA
3252C1B2	13	Fuel Temperature, Degrees Fahrenheit	MT
3252C1B2	14	Relative Humidity, Percent	XR
3252C1B2	15	Battery Voltage, volts	VB
3252C1B2	17	Fuel Moisture, Percent	MM
3252C1B2	18	Wind Direction, Peak, Degrees	UX
3252C1B2	19	Windspeed, Peak, Miles per Hour	UP
3252C1B2	20	Solar Radiation, watts per meter squared	RD

Station: 102712 Name: WAGONTOWN NESDIS: 3334578E

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 13/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 404

State: 16-ID County: 039-Elmore Lat/Lon: 43 34 21,

115 19 36

Obs Agy: 1 (USDA FS) Unit: BOISE Mnemonic: IDBOF FS

Reg: 4

Fuel Stk: Wdy FM Mea:

Site: 2 Elev: 6200 Asp: 4 Ann Prec: 41.00 Season:
Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

Ρ	**	78 NFDRS Only 7	** 88	S	G	С	Staf	fir	ng Id	dx Bi	reakp	nts
r	Н	Gree	enup S	1	r	1			Lo	WC	Hi	.gh
i	FM S	Herb Date I	Date b	р	S	i	SI	DC	SI%	Val	SI%	Val
_				_	_	_						
1	7G F	01-jan-11 01-ju	un-10	2	Р	3	EC	5	90	89	97	93
2	7G F	01-jan-11 01-ju	un-10 —	2	Р	3	ΒI	5	90	63	97	69
3	7H F	01-jan-11 04-ju	un-10 _	2	Ρ	3	ΒI	5	90	28	97	30
4	7H F	01-jan-11 01-ju	un-10	2	Ρ	3	EC	5	90	51	97	53

NESDIS	S#	Description	SHEF
3334578E	9	Rain Accumulation, Inches	PC
3334578E	10	Windspeed, Miles per Hour	US
3334578E	11	Wind Direction, Degrees	UD
3334578E	12	Air Temperature, Standard Placement, Deg	TA
3334578E	13	Fuel Temperature, Degrees Fahrenheit	MT
3334578E	14	Relative Humidity, Percent	XR
3334578E	15	Battery Voltage, volts	VB
3334578E	17	Fuel Moisture, Percent	MM
3334578E	18	Wind Direction, Peak, Degrees	UX
3334578E	19	Windspeed, Peak, Miles per Hour	UP
3334578E	20	Solar Radiation, watts per meter squared	RD

Station: 103205 Name: HORSE BUTTE NESDIS: 32513638

Type: 4 (RAWS S NFDRS) Create/Mod Date: 02-Feb-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ___ Fcst Zone: 418

State: 16-ID County: 073-Owyhee Lat/Lon: 42 25 6,

115 12 6

Obs Agy: 2 (USDI BLM) Unit: TFD Mnemonic: IBLM FS

Reg: 4

Fuel Stk: Wdy FM Mea:
Site: 2 Elev: 5000 Asp: 5 Ann Prec: 9.00 Season:

Site: 2 Elev: 5000 Asp: 5 Ann Prec: 9.00 Season: Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

Ρ	**	78 NFDRS Only	** 88	S	G	С	Staf	fir	ng Id	dx Bi	reakp	onts
r	Н	Gre	eenup S	1	r	1			Lo	WC	Н	lgh
i	FM S	Herb Date	Date b	р	S	i	SI	DC	SI%	Val	SI%	Val
_				_	-	_						
1	7L F	23-nov-10 17-m	may-10 _	1	P	1	ΒI	5	80	54	95	69
2	7A F	23-nov-10 17-m	may-10 _	1	Α	1	ΒI	5	80	42	95	55
3	7T F	23-nov-10 17-m	may-10	1	Ρ	1	ΒI	5	80	68	95	88
4	7G F	23-nov-10 17-m	may-10 _	1	Ρ	1	EC	5	80	85	95	93

NESDIS	S#	Description	SHEF
32513638	9	Rain Accumulation, Inches	PC
32513638	10	Windspeed, Miles per Hour	US
32513638	11	Wind Direction, Degrees	UD
32513638	12	Air Temperature, Standard Placement, Deg	TA
32513638	13	Fuel Temperature, Degrees Fahrenheit	MT
32513638	14	Relative Humidity, Percent	XR
32513638	15	Battery Voltage, volts	VB
32513638	17	Wind Direction, Peak, Degrees	UX
32513638	18	Windspeed, Peak, Miles per Hour	UP
32513638	19	Solar Radiation, watts per meter squared	RD

Station: 103207 Name: BRACE FLAT NESDIS: 325034C2

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 419

State: 16-ID County: 073-Owyhee Lat/Lon: 42 21 1,

116 41 8

Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS

Reg: 4

Wdy FM Mea: Fuel Stk:

Site: 2 Elev: 4900 Asp: 6 Ann Prec: 15.00 Season:
Ltng scale: .04 Hum code: 2 Temp code: 1 Pres code: 1
Wind Spd code: 1 KBDI: 100 One/Ten Fl: N

P	**	78 NFDRS (Only **	88	S	G	С	Staf	ffir	ng I	dx B	reak	onts
r	Н		Greenup	S	1	r	1			Lo	WC	H	igh
i	FM S	Herb Date	Date	b	р	S	i	SI	DC	SI%	Val	SI%	Val
_				-	_	_	_						
1	7A F	01-jan-11	27-apr-10)	1	Α	1	ΒI	5	80	42	95	58
2	7T F	01-jan-11	27-apr-10	_	1	Α	1	ΒI	5	80	65	95	90
		01-jan-11											
4	7T F	01-jan-11	27-apr-10	_	1	Α	1	EC	5	80	22	95	24

NESDIS	S#	Description	SHEF
325034C2	9	Rain Accumulation, Inches	PC
325034C2	10	Windspeed, Miles per Hour	US
325034C2	11	Wind Direction, Degrees	UD
325034C2	12	Air Temperature, Standard Placement, Deg	TA
325034C2	13	Fuel Temperature, Degrees Fahrenheit	MT
325034C2	14	Relative Humidity, Percent	XR
325034C2	15	Battery Voltage, volts	VB
325034C2	17	Wind Direction, Peak, Degrees	UX
325034C2	18	Windspeed, Peak, Miles per Hour	UP
325034C2	19	Solar Radiation, watts per meter squared	RD

Station: 103208 Name: TRIANGLE NESDIS: 32523136

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ___ Fcst Zone: 419

State: 16-ID County: 073-Owyhee Lat/Lon: 42 49 8,

116 35 9

Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS

Reg: 4

Fuel Stk: Wdy FM Mea: Site: 1 Elev: 5330 Asp: 6 Ann Prec: 15.00 Season: Ltng scale: .04 Hum code: 2 Temp code: 1 Pres code: 1

P	**	78 NFDRS	Only **	88	S	G	С	Staf	fir	ng Id	dx Bi	reakp	onts
r	Н		Greenup	S	1	r	1			Lo	WC	Н	igh
i	FM S	Herb Date	Date	b	р	s	i	SI	DC	SI%	Val	SI%	Val
-				-	_	-	_						
1	7A F	01-jan-11	06-may-10	_	1	Α	1	ΒI	5	80	45	95	59
2	7T F	01-jan-11	06-may-10	_	2	Ρ	1	ΒI	5	80	77	95	96
3	7G F	01-jan-11	06-may-10		2	Р	1	ΒI	5	80	78	95	95
		01-jan-11											

NESDIS	S#	Description	SHEF
32523136	9	Rain Accumulation, Inches	PC
32523136	10	Windspeed, Miles per Hour	US
32523136	11	Wind Direction, Degrees	UD
32523136	12	Air Temperature, Standard Placement, Deg	TA
32523136	13	Fuel Temperature, Degrees Fahrenheit	MT
32523136	14	Relative Humidity, Percent	XR
32523136	15	Battery Voltage, volts	VB
32523136	17	Wind Direction, Peak, Degrees	UX
32523136	18	Windspeed, Peak, Miles per Hour	UP
32523136	19	Solar Radiation, watts per meter squared	RD

Type: 4 (RAWS S NFDRS) Create/Mod Date: 16-Mar-2011 Time/Z: 12/MST Assoc Man: ____ Prev Stn: ____ Fcst Zone: 419 State: 16-ID County: 073-Owyhee Lat/Lon: 42 3 9, 115 46 6 Obs Agy: 2 (USDI BLM) Unit: IDBOD Mnemonic: IBLM FS Req: 4 Wdy FM Mea: Fuel Stk: Site: 1 Elev: 5660 Asp: 6 Ann Prec: 15.00 Season: Ltng scale: .10 Hum code: 2 Temp code: 1 Pres code: 1 Wind Spd code: 1 KBDI: 100 One/Ten Fl: N P ** 78 NFDRS Only ** 88 S G C Staffing Idx Breakpnts r H Greenup Slrl Low High i FM S Herb Date $\,$ Date $\,$ b p s i $\,$ SI DC SI% Val SI% Val $\,$ _ __ _ _ ____ 1 7A F 01-jan-11 18-may-10 _ 1 A 1 BI 5 80 46 95 61 2 7T F 01-jan-11 18-may-10 _ 1 A 1 BI 5 80 73 95 97 3 7G F 01-jan-11 18-may-10 _ 1 A 1 BI 5 80 81 95 103 4 7T F 01-jan-11 18-may-10 _ 1 A 1 EC 5 80 21 95 24 NESDIS S# Description SHEF _____ 3251B02C 9 Rain Accumulation, Inches 3251B02C 10 Windspeed, Miles per Hour

3251B02C 11 Wind Direction, Degrees UD 3251B02C 12 Air Temperature, Standard Placement, Deg TA 3251B02C 13 Fuel Temperature, Degrees Fahrenheit MT

3251B02C 19 Solar Radiation, watts per meter squared RD

3251B02C 14 Relative Humidity, Percent
3251B02C 15 Battery Voltage, volts
3251B02C 17 Wind Direction, Peak, Degrees
3251B02C 18 Windspeed, Peak, Miles per Hour

NESDIS: 3251B02C

Station: 103210 Name: POLE CREEK

РC US

XR VB UX UP Station: 353614 Name: OWYRID NESDIS: 3252A454

Type: 4 (RAWS S NFDRS) Create/Mod Date: 20-Jan-2011 Obs

Time/Z: 12/MST

Assoc Man: ____ Prev Stn: ____ Fcst Zone: 637

State: 41-OR County: 045-Malheur Lat/Lon: 43 31 4,

117 14 22

Obs Agy: 2 (USDI BLM) Unit: VALE Mnemonic: VAD FS

Reg: 6

Fuel Stk: _____ Wdy FM Mea: ____

Site: 1 Elev: 4400 Asp: 1 Ann Prec: 9.40 Season:
Ltng scale: 1.00 Hum code: 2 Temp code: 1 Pres code: 1

P	**	78 NFDRS	Only **	88	S	G	С	Staf	fir	ng Id	dx B	reak	onts
r	Н		Greenup	S	1	r	1			Lo	WC	H	igh
i	FM S	Herb Date	Date	b	р	S	i	SI	DC	SI%	Val	SI%	Val
-				-	_	-	-						
1	7A F	20-nov-10	22-apr-10)	1	Α	1	ΒI	6	80	40	95	53
2	7G F	20-nov-10	22-apr-10	_	1	Α	1	EC	6	80	80	95	92
3	7T F	20-nov-10	22-apr-10	_	1	Α	1	ΒI	6	80	63	95	84

NESDIS	S#	Description	SHEF
3252A454	9	Rain Accumulation, Inches	PC
3252A454	10	Windspeed, Miles per Hour	US
3252A454	11	Wind Direction, Degrees	UD
3252A454	12	Air Temperature, Standard Placement, Deg	TA
3252A454	13	Fuel Temperature, Degrees Fahrenheit	MT
3252A454	14	Relative Humidity, Percent	XR
3252A454	15	Battery Voltage, volts	VB
3252A454	17	Wind Direction, Peak, Degrees	UX
3252A454	18	Windspeed, Peak, Miles per Hour	UP
3252A454	19	Solar Radiation, watts per meter squared	RD

Appendix F – Weather Station Data Analysis

Station ID	Station Name	Status	Agency/Owner	Elevation	Comments
101108	Weiser River	Active	USFS ID-PAF	3900	?-? min temp negative 58 degrees – deleted
101220	Teapot	Active	USFS ID-PAF	5120	Deleted 3-19-04, conflicting information on RH and precip. Deleted 6/26/86, 5/18/97 and 4/5/98 max temp, min temp, and rh all the same number.
101221	Bearskin Creek	Active	USFS ID-BOF	6700	Questionable data – not used in analysis
101222	Pine Creek	Active	USFS ID-BOF	5600	Deleted one date for 3.12"precip in one hour. Deleted 9/1/85, 9/3/85, 9/7/89, 7/7/89 no wind data recorded. No wind speeds over 13mph recorded in the dataset. Deleted 9/20/86, 9/27/86, 6/16/92 bad RH data.
101223	Ski Hill	Active	USFS ID-PAF	5293	Deleted 6/18/91, 6/28/89, 7/3/97 for bad temperature data. Deleted 6/12/92 max and min RH=0.
101402	Dead Indian Ridge	Active	BLM ID-BOD	3570	6/8/90 Changed min temp from 0 to 40
101708	Town Creek	Active	USFS ID-BOF	4500	No wind speeds over 19mph recorded in the dataset. Deleted 7/22/89 bad temperature data. Deleted 8/19/90 bad RH data.
101710	Little Anderson	Active	USFS ID-BOF	4560	
101805	Little Creek	Active	USFS ID-SCF	4400	Deleted 9/20/88, 8/5/88-8/14/88 no RH data. Deleted 6/23/90- 9/5/90 min RH of 0.
102903	North Fork	Active	USFS ID-STF	6290	Deleted 7/3/93, 7/2/99,

		1			0/0/01 -11
					9/9/91 changed precip
					from 16" to 1.6" on
101000	C. 1 DC	A .*	Hara in ann	6206	7/2/98.
101809	Stanley_RS	Active	USFS ID-STF	6286	Deleted 3/18/04-precip
					of 2.61" in one hour.
					Deleted 6/14/92,
					7/21/93, 9/2/96,
					4/20/00,7/6/00,10/13/00
					missing RH data. Deleted 5/15/00,
					6/12/00, 7/1/00,
					7/10/00, 8/1/00, 8/7/00,
					8/10/00, 8/17/00, 8/17/00,
					8/20/00, 8/25/00,
					8/25/00, 8/28/00,
					8/28/00, 8/31/00,
					9/7/00, 9/15/00,
					9/16/00, 9/29/00
					missing temperature
					data.
101812	Horton	Active	USFS ID-STF	8700	Deleted 9/22/95 2.13"
	Peak				precip in one hour,
					10/13/02 and 3/28/07
					questionable max and
					min RH.
102601	Boise	Active	BLM ID-BOD	2838	
	Manual	Manual			
102709	Mountain	Active	BLM ID-BOD	3350	24 Hr Precipitation
	Home				Changes: 6/27/96 from
					35 to 0.35, 10/13/00
					from 32 to 0.32,
					9/16/96 from 30 to
					0.03, 7/31/01 from 13
					to 0.13, 10/12/00 from
					5 to 0.50, 6/25/96 from 4 to 0.04, 8/11/93 from
					2 to 0.02. Wind
					Changes: 7/7/95 from
					55 to 15.
102711	Deer Haven	Active	BLM ID-TFD	5550	
102712	Wagontown	Active	USFS ID-BOF	6200	Not used in analysis
					due to short record.
					Station was new in
					2003.
102802	Fleck	Active	USFS ID-STF	7100	Deleted 5/27/99 bad
	Summit				max/min RH.

103207	Brace Flat	Active	BLM ID-BOD	4900	
103208	Triangle	Active	BLM ID-BOD	5330	
103209	Twin Butte	Active	BLM ID-TFD	3330	Min Temp Changes:
					7/17/06 from 5 to 75.
103210	Pole Creek	Active	BLM ID-BOD	5660	8/11/93 precip greater
					than 5" in less than 24
					hours – deleted
103211	Sho-Pai	Active	BIA NV-DVA	5315	
352420	Morgan	Active	BLM OR-VAD	3600	
	Mountain				
353612	Grassy	Active	BLM OR-VAD	4800	
	Mountain				
353614	Owyhee	Active	BLM OR-VAD	4400	
	Ridge				
103205	Horse Butte	Active	BLM ID-TFD	5000	Max Temp Change:
					5/22/92 from 106 to 76.
					Min Temp Change:
					7/19/90 from 7 to 57.

Appendix G – Preparedness Level Actions

Preparedness Level Actions

The following Preparedness Level actions are guidelines for agency personnel. They are discretionary in nature and usually will require a consensus between agency personnel prior to implementation.

Responsible Party	Suggested Action	PL 1	PL 2	PL 3	PL 4	PL 5	Affected Entity
raity	Ensure resource advisors are designated and available for fire assignments.	X	X	X	X	X	Agency
Agency	Evaluate work/rest needs of fire staff.		Х	Х	Х	Х	Agency
Administrator	Consider need for fire restriction or closures.				Х	Х	Public Industry
	Provide appropriate political support to fire staff regarding the implementation of preparedness level actions.			X	X	X	Agency Public Industry
	Review, approve and transmit severity requests to the appropriate level.				Х	Х	Agency
	Issue guidance to respective agency staff indicating severity of the season and increased need and availability for fire support personnel.				X	X	Agency
	Evaluate season severity data (BI and ERC trends for season, fuel loadings, live FM, drought indices, and long term forecasts).	Х	Х	Х	Х	Х	Agency
	Evaluate fire staff work/rest requirements		Х	Х	Х	Х	Agency
	Brief agency administrator on burning conditions and fire activity.			Х	Х	Х	Agency
Fire Staff Officer or	Review geographical and national preparedness levels and evaluate need to suspend local prescribe fire activities.			Х	Х	Х	Agency
FMO	Ensure Education/Mitigation personnel have initiated media contacts and public notifications				Х	Х	Public Industry
	Ensure agency staff is briefed on increasing fire activity				Х	Х	Agency
	Brief next higher level of fire management on increasing/decreasing fire activity.				Х	Х	Agency

	Consider fire severity request and pre-positioning of resources including: suppression resources, aerial support, aerial supervision, command positions, dispatch, logistical support, and prevention. Coordinate with interagency partners on the need for fire restrictions or closures. Request that the Line Officer issue guidance to respective agency staff regarding the need for increased fire availability in				X	X	Agency Public Industry Agency
	support positions. Consider pre-position of a Type 3 organization.					X	Agency
	If preparedness level is decreasing, consider releasing pre-positioned and detailed resources.	Х	X	X			Agency
	Evaluate work/rest needs of IA crews, dispatchers and aviation bases.			X	X	X	Agency
	Consider aerial detection flight.				Χ	Χ	Agency
	Evaluate need to change or shift duty hours of IA resources.				X	X	Agency
Duty Officers	Evaluate draw-down levels for suppression, command, and oversight positions.				X	Х	Agency
	Consider extending staffing beyond normal shift length.			X LAL 3+	Х	Х	Agency
	Evaluate severity of conditions and consider severity request.				Х	Х	Agency
	Consider pre-positioning and/or detailing of additional IA resources.				Х	Х	Agency
	Consider pre-positioning and automatic dispatch of ATGS				Х	Х	Agency
	Consider 6 th day staffing on modules				Х	Х	Agency
	Consider patrols and pre- positioning of local IA resources in high risk areas.				Х	Х	Agency
	Determine and broadcast the morning and afternoon preparedness, dispatch, and adjective fire danger levels to interagency fire personnel.	Х	Х	Х	Х	Х	Agency
	Evaluate work/rest needs of center staff.			Х	X	X	Agency

BDC	If preparedness level is decreasing, consider release of pre-positioned or detailed dispatchers and logistical support personnel.	X	X	X			Agency
Manager	Consult with Duty Officers concerning potential for extended staffing beyond normal shift length.			X LAL 3+	Х	X	Agency
	Consider pre-positioning or detail of off-unit IA dispatchers and logistical support personnel.				X	X	Agency
	Consider discussing activation of local area MAC Group.				Х	Х	Agency
	Consult with duty officer and FMO regarding potential need for severity request.				X	X	Agency
	Consider bringing additional dispatch personnel in from scheduled days off.					X	Agency
	Notify appropriate military personnel of high/extreme fire danger and request the drop heights of chaff/flares be increased.					X	Agency
	Consult with Eastern Great Basin Coordination Center (EGBCC) regarding availability of resources at the geographical and national levels.			X	X	X	Agency
	Ensure that roadside fire danger signs reflect the current adjective fire danger rating.	X	X	Х	Х	Х	Public
	Ensure IA crews are briefed on local preparedness level, burning conditions, and availability of IA resources and air support.	X	X	X	X	X	Agency
Assistant Fire Staff or AFMO	Ensure incoming pre-position or detailed personnel are briefed on local conditions.	X	X	X	X	X	Agency
	Evaluate work/rest needs of crews. Monitor modules days off in an attempt to maintain everyone getting 1 day off in every 7.			X	X	X	Agency
	Increase patrols in camping and recreation areas.				Х	Х	Public
	Consider suspension of project work away from station.					X	Agency

	Provide duty officer with feedback				Х	Х	Agency
	regarding unique/unexpected fire					^	Agency
	behavior and severity conditions						
	and the need to increase IA						
	capabilities.						
	Ensure that roadside fire danger	Χ	Χ	Χ	Χ	Χ	Public
	signs reflect the current adjective						
	fire danger rating.						
	Initiate press release to inform				Χ	Χ	Public
	public/industry of the potential fire						Industry
	danger.						
Fire	Ensure the public and industrial				Χ	X	Public
Prevention -	entities are aware of the policy						Industry
Education	regarding fire trespass						
and	investigations for human-caused						
Mitigation.	fires and cost recovery for						
	suppression action.						
	Consider the need for increased				X	Χ	Public
	prevention patrols.						Industry
	Contact local fire chiefs to make				X	Χ	Agency
	them aware of fire danger						
	Consider door to door contacts in					Χ	Public
	rural communities or ranch areas.						Industry
	Post signs and warnings in camp				Х	X	Public
	and recreation areas.						
	Consult with FMO regarding				Х	X	Public
	severity request and potential						Industry
	need for additional prevention						
	personnel.			1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Consult with AFMO and FMO				X	X	Agency
	regarding need for fire						Public
	restrictions, closures and the need						Industry
	to order a Fire Prevention Team.						

BOF Draw Down Levels

This chart shows the minimum draw down levels for the forest and is for guidance only. The Forest Duty Officer retains the right to deviate from this guide.

Also refer the Boise National Forest Specific Management Action Guide for a more detailed explanation.

PL 1	PL 2	PL 3	PL 4	PL 5
1 Forest DO	1 Forest DO	1 Forest DO	1 Forest DO	1 Forest DO
	1 EU Helicopter (shared by BLM and USFS)	4 District Duty Officers	4 District Duty Officers	4 District Duty Officers
	and sor sy	4 Engines	4 Engines	4 Engines
		1 Type 2-IA Crew (shared with	5 Patrols	5 Patrols
		both zones)	1 Type 2-IA Crew	1 Type 2-IA Crew
		1 EU Helicopter shared by BLM and USFS	shared by BLM (shared by BLM	
			Consider extended Staffing/Sixth Day Staffing	Strongly consider extended staffing/6 th day staffing
				Consider prepositioning key resources

STAFFING GUIDE Boise District BLM

Preparedness Level	PL 1	PL 2	PL 3	PL 4 & 5
MINIMUM STAFFING	3 Engines	4 Engines 1 Water Tender	6 Engines 1 Water Tenders 2 Dozers Helicopters (2 of 3 in area)	8 Engines 2 Water Tenders 2 Dozers Helicopter (2 of 3 in area)
EXTENDED EVENING STAFFING	None	4 Engines Through duration of event	4 Engines Through duration of event	All regular forces Consider Supplemental
6 DAY STAFFING	None	If necessary to meet minimum staffing	If necessary to meet minimum staffing	If necessary to meet minimum staffing
7 DAY STAFFING	None	None	If necessary based on draw down and ongoing incidents	If necessary based on draw down and ongoing incidents

- -This document provides guidance only. Duty Officer retains the right to deviate from above guidance.
- -When weather events that increase the potential for fire ignition and fire spread are forecast, move up to the next staffing level
- -For holidays or other events when potential for ignitions is enhanced, move up to next level.
- -Overhead will be assigned by Duty Officer or Fire Management Staff as needed.

Appendix H - Pocket Card

FIRE DANGER POCKET CARD







Developed & Approved by: ID-BOF. ID-SWS. ID-BOD. March 2010

FIRE DANGER FACTS

ENERGY RELEASE COMPONENT

- ERC is calculated from the 1300 RAWS daily observation of temperature, humidity, daily temperature & RH ranges, and precipitation.
- ERC can serve as a good characterization of a fire season as it tracks seasonal fire danger trends.
- ERC has low variability and is the best fire danger component for indicating effects of intermediate to long-term
 drying on fire behavior.
- Wind is NOT part of the ERC calculation.

BURNING INDEX

- BI gives day to day fluctuations calculated from the 1200 RAWS daily observation of temperature, wind, RH, daily temperature & RH ranges, and precipitation duration.
- Wind has a major influence on Bl.
- BI is an estimate of the potential difficulty of fire control as a function of how fast and how hot a fire could burn.
- Divide BI by 10 gives an estimate of the flame length.

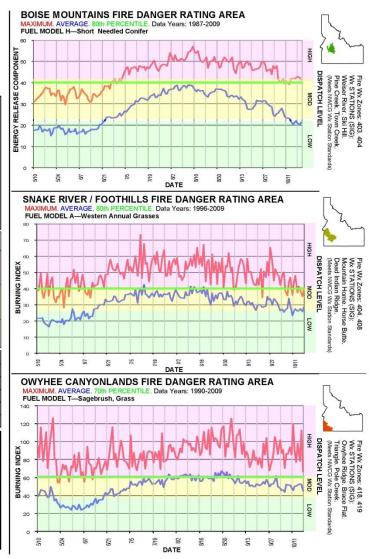
DISPATCH LEVELS	BOISE MTNS ERC	SNRVR / FTHLS BI	OWYHEE BI
HIGH Potential for high to extreme intensity. Expect high rates of spread, flame length, and control difficulty. Spot fires are a constant danger.	40+	40+	61+
MODERATE Fires in open cured grasslands will burn briskly and spread rapidly on windy days. Timber fires spread slowly to moderately fast. Short distance spotting may occur.	23-39	26-39	39-60
LOW Containment problems not expected. Fires tend to spread slowly by creeping and smoldering, and burn in irregular fingers.	0-22	0-25	0-38

LOCAL THRESHOLDS Any of these factors significantly increase the potential for extreme fire behavior.

	BOISE MOUNTAINS	SNAKE RIVER/FOOTHILLS	OWYHEE CANYONLANDS
20 FT WIND SPEED (mph)	>5	>7	>8
RH (%)	<25	<20	<15
TEMPERATURE (°F)	>80	>85	>84
FACTOR	ERC >39	BI >39	BI >57

DACT	CIDE	EVDE	DIENCE

DATE	FIRE NAME	FDRA	SIZE	BI	ERC	TEMP	RH	WIND
9/3/07	CHIEF PARRISH	BOISE MTNS	3736	-	49	86	15	3
7/17/07	MONUMENTAL	BOISE MTNS	194,496	-	47	89	25	9
8/20/06	RATTLESNAKE	BOISE MTNS	43,600	_	48	86	15	3
7/18/07	GEM COUNTY	SNRVR/FTHLS	3962	57	-	104	7	12
08/10/06	CHERRY	SNRVR/FTHLS	54,350	51	1	93	13	10
8/26/96	8TH STREET	SNRVR/FTHLS	15,300	42	_	100	16	6
7/6/07	CRUTHCHER CROSSING	OWYHEE	38,124	71	10-20	102	4	8
8/21/06	CHUBBY SPAIN	OWYHEE	6074	79		91	9	5



${\bf Appendix}\; {\bf I-RERAP}\; {\bf Analysis}\; ({\bf Season\text{-}Ending}\; {\bf Event}\; {\bf Probabilities})$

Future plans are to include analysis for each of the Fire Danger Rating Areas.

Appendix J – FireFamily Plus Analysis

In order to interpret the following tables of outputs from the FireFamily Plus software package it is necessary to describe the process used for choosing a good fit.

There are four items to analyze in the interpretation of a good fit for Fire Day (FD), Large Fire Day (LFD) and Multiple Fire Day (MFD) for a given weather station or SIG of stations.

- The first item is the R^2 sometimes referred to as the correlation coefficient. In interpreting the R^2 of a particular combination of weather station fuel model and index/component, an R^2 of 1.0 indicates a perfect correlation.
- The second part of the interpretation is the Chi^2 which is a goodness of fit test that tells us how well the data fits the curve. A Chi^2 of less than 13 indicates an excellent fit. A Chi^2 of less than 20 is good but a Chi^2 of over 26 is not so good.
- The third item to examine is the P-Value associated with the Chi^2. The P-Value determines the confidence interval for the test. A good P-Value is greater than 0.05 for this test.
- The forth item to interpret is the Probability Range (FD P_Range). A large Probability Range is desirable because it allows for more flexibility in setting thresholds or breakpoints for fire business.

It is important to note that sometimes there is no "good fit" and the best you can do is pick the best of the worst. Additionally, the best fit may not work for the intended purpose. A good example of this would be using a highly variable index and fuel model to implement campfire restrictions. Using a fuel model A with BI may result in changing restriction levels on a daily basis, which would be extremely difficult to implement and enforce, potentially damaging our credibility with the public and industrial interests.

Boise Mountains FDRA

Individual weather stations were analyzed first to find the best correlation (FD^R2). The stations with the best correlation to fire business were then combined into a Special Interest Group (SIG) and analyzed again. From this analysis, Fuel Model H with ERC was found to be the best statistical fit for Fire Day (FD) for the Boise Mountains Fire Danger Rating Area. The Weiser River, SkiHill, Pine Creek and Town Creek Weather Stations were used for the Final SIG.

				FD	FD	FD	FD	LFD	LFD	LFD	LFD_P-	MFD	MFD	MFD	MFD
SIG/Station	Years	Variable	Model	R^2	Chi^2	P-Val	P-Range	R^2	Chi^2	P-Val	Range	R^2	Chi^2	P-Val	P-Range
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	ERC	A	0.94	6.3	0.0428	0.19 - 0.56	0.94	1.39	0.5	0.04 - 0.22	0.17	6.46	0.0395	0.21 - 0.30
101222	1984 -	DI	a	0.02	10.75	0.0162	0.11 0.71	0.05	2.07	0.0706	0.01 0.40		15.60	0.040	0.25 0.20
101222	2007	BI	G	0.92	18.75	0.0162	0.11 - 0.71	0.95	2.07	0.9786	0.01 - 0.40	0	15.63	0.048	0.26 - 0.28
SIG – Boise Mountains	1007														
(101108, 101222,	1987 - 2007	ERC	С	0.91	12.39	0.1345	0.16 - 0.58	0.52	13.18	0.1056	0.03 - 0.21	0.14	13.9	0.0845	0.21 0.20
101223, 101708)	1982 -	ERC	C	0.91	12.39	0.1343	0.10 - 0.58	0.52	13.18	0.1056	0.03 - 0.21	0.14	13.9	0.0845	0.21 - 0.30
101108	2007	ERC	C	0.89	11.62	0.169	0.20 - 0.51	0.77	8.94	0.3475	0.03 - 0.26	0.06	5.68	0.6827	0.25 - 0.28
101108	1984 -	EKC	C	0.89	11.02	0.109	0.20 - 0.31	0.77	8.94	0.3473	0.03 - 0.20	0.00	3.08	0.0827	0.23 - 0.28
101222	2007	ERC	G	0.89	32.14	0.0001	0.09 - 0.62	0.87	5.92	0.6563	0.01 - 0.27	0.35	12.86	0.1168	0.16 - 0.33
101222	1987 -	LIKE	0	0.07	32.14	0.0001	0.07 0.02	0.07	3.72	0.0505	0.01 0.27	0.55	12.00	0.1100	0.10 0.55
101223	2007	ERC	Н	0.88	12.77	0.12	0.22 - 0.60	0.66	17.73	0.0234	0.02 - 0.30	0.1	5.98	0.6489	0.24 - 0.29
SIG – Boise Mountains															
(101108, 101222,	1987-														
101223, 101708)	2007	ERC	U	.88	17.43	0.0259	0.13-0.60	0.62	10.87	0.2093	0.03-0.22	0.08	13.85	0.0858	0.20-0.30
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	ERC	Н	0.88	29.43	0.0003	0.10 - 0.68	0.8	6.59	0.5813	0.02 - 0.28	0.39	13.67	0.0908	0.14 - 0.36
	1982 -														
101708	2007	BI	G	0.88	32.19	0.0001	0.09 - 0.67	0.81	6.76	0.5629	0.01 - 0.35	0.02	13.07	0.1096	0.25 - 0.28
	1982 -														
101708	2007	ERC	G	0.88	42.93	0	0.08 - 0.64	0.8	6.71	0.5677	0.02 - 0.28	0.5	7.74	0.4591	0.16 - 0.35
	1986 -		~												
101220	2007	BI	G	0.87	15.75	0.0461	0.18 - 0.62	0.78	7.14	0.5215	0.02 - 0.35	0.03	8.39	0.3959	0.24 - 0.29
101108	1982 - 2007	BI	С	0.87	19.68	0.0116	0.19 - 0.68	0.67	16.14	0.0404	0.03 - 0.35	0.02	6.8	0.5582	0.26 - 0.27
SIG – Boise Mountains	2007	ы	C	0.67	19.00	0.0110	0.19 - 0.08	0.07	10.14	0.0404	0.03 - 0.33	0.02	0.6	0.3362	0.20 - 0.27
(101108, 101222,	1987-														
101223, 101708)	2007	BI	U	.87	20.32	0.0092	0.13-0.70	0.85	328	0.9153	0.03-0.30	0.04	12.82	0.1181	0.22-0.29
SIG – Boise Mountains	2007	21	3	.0,	20.52	0.0072	5.15 0.70	0.03	520	5.7155	0.00 0.00	0.01	12.02	5.1101	0.22 0.27
(101108, 101222,	1987 -														
101223, 101708)	2007	ERC	K	0.87	28.28	0.0004	0.08 - 0.64	0.68	10.09	0.2585	0.01 - 0.24	0.28	15.36	0.0526	0.14 - 0.34
SIG – (101222, 101223,	1986 -	-													
101708)	2007	ERC	G	0.86	32.68	0.0001	0.10 - 0.65	0.68	7.78	0.4557	0.02 - 0.24	0.51	21.65	0.0056	0.11 - 0.42

SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD_P- Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
SIG – Boise Mountains	rears	variable	Model	K^Z	CIII^2	r-vai	r-Kange	K^Z	CIII^2	r-vai	Kange	K^Z	CIII^2	r-vai	r-Kange
(101108, 101222,	1987 -														
101223, 101708)	2007	ERC	G	0.86	40.32	0	0.06 - 0.69	0.75	8.62	0.3755	0.01 - 0.28	0.51	17.15	0.0285	0.09 - 0.41
101223, 101708)	1987 -	EKC	U	0.80	40.32	U	0.00 - 0.09	0.73	8.02	0.3733	0.01 - 0.28	0.51	17.13	0.0263	0.09 - 0.41
101223	2007	BI	н	0.85	11.78	0.1612	0.22 - 0.60	0.89	6.17	0.628	0.02 - 0.47	0	10.45	0.2349	0.25 - 0.28
101223	1986 -	DI .	11	0.03	11.70	0.1012	0.22 - 0.00	0.07	0.17	0.020	0.02 - 0.47	U	10.43	0.2347	0.23 - 0.26
101220	2007	BI	Н	0.85	14.14	0.0781	0.21 - 0.60	0.77	8.35	0.3997	0.03 - 0.36	0.18	7.66	0.467	0.22 - 0.30
101220	1986 -	DI	11	0.03	17.17	0.0701	0.21 0.00	0.77	0.55	0.3771	0.03 0.30	0.10	7.00	0.407	0.22 0.30
101220	2007	ERC	Н	0.85	19.99	0.0104	0.20 - 0.56	0.74	10.74	0.2167	0.03 - 0.26	0	8.62	0.3756	0.26 - 0.27
SIG – Boise Mountains	2007	Zite		0.00	17.77	0.010.	0.20 0.00	0., .	10171	0.2107	0.02 0.20	- U	0.02	0.0700	0.20 0.27
(101108, 101222,	1987 -														
101223, 101708)	2007	BI	Н	0.84	33.53	0	0.11 - 0.74	0.69	8.91	0.3503	0.02 - 0.34	0.19	10.33	0.2428	0.19 - 0.33
	1982 -														
101108	2007	ERC	G	0.84	36.69	0	0.08 - 0.60	0.9	4.89	0.7694	0.00 - 0.31	0.56	7.52	0.4815	0.14 - 0.35
	2001 -														
101710	2007	BI	G	0.83	9.92	0.2706	0.08 - 0.60	0.78	3.53	0.8966	0.00 - 0.39	0	6.53	0.5886	0.24 - 0.24
	1984 -														
101222	2007	IC	G	0.83	20.55	0.0084	0.21 - 0.63	0.67	18.54	0.0175	0.04 - 0.40	0.54	6.01	0.6458	0.17 - 0.33
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	BI	C	0.83	27.33	0.0006	0.16 - 0.69	0.76	5.68	0.6834	0.03 - 0.28	0.12	11.98	0.1522	0.21 - 0.31
	1997 -														
102802	2007	ERC	G	0.82	20.62	0.0082	0.10 - 0.58	0.84	7.49	0.4846	0.00 - 0.38	0.19	9.18	0.3275	0.17 - 0.31
	1982 -														
101108	2007	BI	G	0.82	32.45	0.0001	0.14 - 0.70	0.73	11.31	0.1849	0.02 - 0.40	0.16	8.88	0.3528	0.23 - 0.31
SIG – Boise Mountains															
(101108, 101222,	1987 -			0.04	25.46	0.000=	0.12 0.50	0.00	2.50	0.0555		0.04	4.2.5	0.0000	007 005
101223, 101708)	2007	BI	K	0.81	27.16	0.0007	0.12 - 0.68	0.83	3.79	0.8755	0.02 - 0.31	0.01	4.36	0.8233	0.25 - 0.26
SIG – Boise Mountains	1007														
(101108, 101222,	1987 - 2007	BI	G	0.81	43.05	0	0.09 - 0.76	0.74	8.6	0.2769	0.02 - 0.34	0.27	9.92	0.2700	0.17 0.25
101223, 101708)	2007	ВІ	G	0.81	43.03	U	0.09 - 0.76	0.74	8.0	0.3768	0.02 - 0.34	0.27	9.92	0.2708	0.17 - 0.35
101710	2001 -	IC	G	0.8	9.42	0.3085	0.16 - 0.58	0.61	10.52	0.2307	0.00 - 0.41	0.15	3.44	0.9035	0.19 - 0.31
SIG – (101222, 101223,	1986 -	ic	U	0.0	9.42	0.3063	0.10 - 0.38	0.01	10.32	0.2307	0.00 - 0.41	0.13	3.44	0.9033	0.19 - 0.31
101708)	2007	BI	G	0.8	31.27	0.0001	0.12 - 0.69	0.58	12.48	0.1311	0.02 - 0.32	0.44	8.44	0.3918	0.16 - 0.38
SIG – Boise Mountains	2007	DI .	G	0.0	31.27	0.0001	0.12 - 0.07	0.56	12.40	0.1311	0.02 - 0.32	0.44	0.77	0.3710	0.10 - 0.36
(101108, 101222,	1987 -														
101223, 101708)	2007	ERC	F	0.79	30.41	0.0002	0.20 - 0.69	0.63	12.34	0.1365	0.04 - 0.29	0.03	16.25	0.039	0.24 - 0.29
101220, 101700)	1982 -	Zite	-	0.77	50	0.0002	0.20 0.09	0.05	12.0	0.1200	0.0. 0.29	0.00	10.20	0.000	0.2. 0.29
101221	2007	ERC	G	0.78	29.71	0.0002	0.17 - 0.56	0.47	11.05	0.1988	0.05 - 0.20	0.09	12.88	0.1159	0.25 - 0.31
SIG – Boise Mountains											-				
(101108, 101222,	1987 -														
101223, 101708)	2007	BI	A	0.78	37.53	0	0.18 - 0.74	0.82	5.9	0.6584	0.03 - 0.39	0.02	11.29	0.186	0.24 - 0.28
	1986 -														
101220	2007	ERC	G	0.78	45.04	0	0.15 - 0.61	0.78	8.34	0.4009	0.02 - 0.27	0.22	10.2	0.2514	0.20 - 0.32

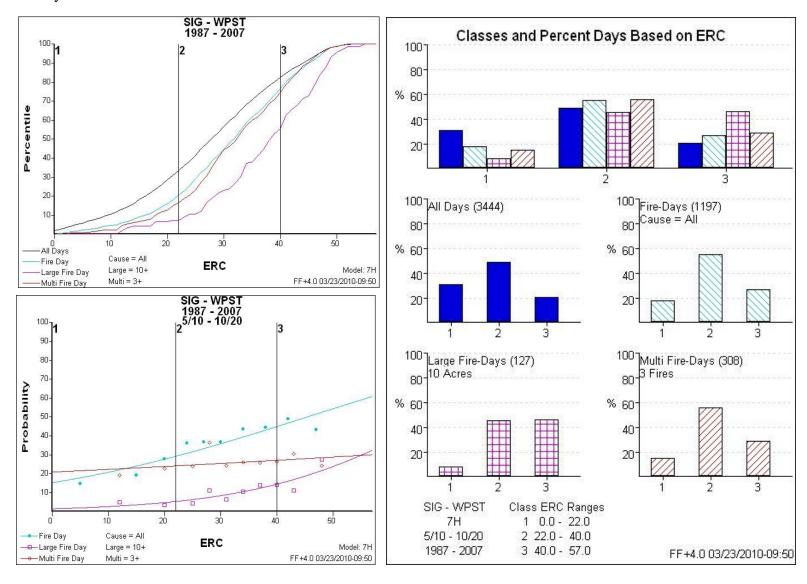
SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD_P- Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
51G/Station	2001 -	v ur uore	Model		CIII 2	1 141	1 Runge	- X -	- CIII 2	1 / 41	runge	~ -	CIII 2	1 / 441	1 Runge
101710	2007	ERC	G	0.76	18.82	0.0158	0.07 - 0.62	0.61	10.36	0.2407	0.00 - 0.51	0.19	10.2	0.2515	0.11 - 0.33
	1982 -														
101108	2007	IC	G	0.76	25.5	0.0013	0.23 - 0.62	0.77	11.24	0.1886	0.04 - 0.42	0.49	3.25	0.9177	0.18 - 0.32
	1982 -														
101108	2007	IC	C	0.76	33.58	0	0.22 - 0.63	0.78	12.5	0.1304	0.04 - 0.39	0.2	6.87	0.5512	0.21 - 0.30
	1982 -														
101221	2007	BI	G	0.74	25.36	0.0014	0.21 - 0.64	0.46	16.85	0.0317	0.04 - 0.27	0.65	4.69	0.7902	0.18 - 0.38
SIG – Boise Mountains	1007														
(101108, 101222,	1987 - 2007	BI	F	0.74	39.52	0	0.22 0.72	0.68	10.49	0.2321	0.05 - 0.35	0	12.20	0.1027	0.25 0.26
101223, 101708) SIG – Boise Mountains	2007	ы	Г	0.74	39.52	U	0.23 - 0.73	0.08	10.49	0.2321	0.05 - 0.35	U	13.28	0.1027	0.25 - 0.26
(101108, 101222,	1987 -														
101223, 101708)	2007	IC	F	0.73	42.25	0	0.22 - 0.64	0.66	12.45	0.1321	0.05 - 0.27	0	12.91	0.1149	0.25 - 0.26
SIG – Boise Mountains	2007	10	1	0.73	12.23		0.22 0.01	0.00	12.13	0.1321	0.03 0.27	- U	12.71	0.111)	0.23 0.20
(101108, 101222,	1987-														
101223, 101708)	2007	IC	U	.71	46.11	0	0.19-0.69	0.8	656	0.5845	0.04-0.33	0.01	00.31	0.2436	0.24-0.27
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	IC	G	0.71	47	0	0.19 - 0.69	0.81	6.18	0.6273	0.04 - 0.33	0	10.82	0.212	0.24 - 0.27
	1982 -														
101108	2007	SC	C	0.7	47.44	0	0.22 - 0.85	0.3	28.49	0.0004	0.06 - 0.45	0.12	7.67	0.466	0.25 - 0.33
SIG – Boise Mountains	1987 -														
(101108, 101222, 101223, 101708)	2007	IC	Н	0.7	48.11	0	0.20 - 0.69	0.84	4.54	0.8052	0.04 - 0.33	0	14.44	0.071	0.25 - 0.26
SIG – Boise Mountains	2007	iC	п	0.7	46.11	U	0.20 - 0.09	0.64	4.34	0.8032	0.04 - 0.33	U	14.44	0.071	0.23 - 0.20
(101108, 101222,	1987 -														
101223, 101708)	2007	IC	С	0.7	54.61	0	0.20 - 0.70	0.89	3.35	0.9108	0.04 - 0.35	0	20.55	0.0084	0.25 - 0.26
SIG – (101222, 101223,	1986 -	10		017	001		0.20 0.70	0.07	0.00	0.5100	0.0.1		20.00	0.000	0.20 0.20
101708)	2007	IC	G	0.69	37.12	0	0.21 - 0.66	0.82	5.58	0.6939	0.04 - 0.34	0.11	9.86	0.2747	0.24 - 0.31
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	SC	C	0.69	55.73	0	0.19 - 0.81	0.66	7.93	0.4402	0.05 - 0.32	0.1	19.18	0.0139	0.22 - 0.32
	1986 -														
101220	2007	IC	G	0.68	23.24	0.0031	0.26 - 0.56	0.82	7.04	0.5319	0.04 - 0.36	0.61	4.69	0.7906	0.17 - 0.33
SIG – Boise Mountains	1007														
(101108, 101222, 101223, 101708)	1987 - 2007	IC	K	0.68	42.81	0	0.21 - 0.65	0.8	5.85	0.6641	0.04 - 0.32	0.06	8.08	0.4254	0.22 - 0.29
101223, 101700)	1982 -	IC	Λ.	0.08	42.01	U	0.21 - 0.03	0.8	3.63	0.0041	0.04 - 0.32	0.00	0.08	0.4234	0.22 - 0.29
101221	2007	IC	G	0.67	27.86	0.0005	0.26 - 0.61	0.8	6.52	0.5889	0.05 - 0.41	0.65	10.15	0.2545	0.12 - 0.37
101221	1982 -	10	3	0.07	27.00	0.0003	0.20 0.01	0.0	0.52	0.5007	0.05 0.71	0.03	10.13	5.2545	0.12 0.37
101708	2007	SC	G	0.67	53.09	0	0.16 - 0.73	0.87	3.93	0.8634	0.03 - 0.56	0.26	8.11	0.423	0.16 - 0.33
SIG – Boise Mountains															
(101108, 101222,	1987 -														
101223, 101708)	2007	SC	Н	0.65	45.36	0	0.19 - 0.74	0.47	7.34	0.0619	0.05 - 0.24	0.03	5.48	0.1399	0.24 - 0.28

102802 2007 BI	SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD_P- Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
101710 2001 2001 2007 SC G 0.64 15.41 0.0311 0.15 - 0.66 0.58 4.28 0.5103 0.01 - 0.40 0.06 7.95 0.2418 0.17 - 0.31	51G/Station		v at table	WIOUCI	K Z	CIII 2	1 - v ai	1 -Kange	K Z	CIII 2	1-vai	Kange	K Z	CIII 2	1 - v a1	1 -Kange
Mathematical Notation Math	102802	2007	BI	G	0.64	12.77	0.1199	0.24 - 0.56	0.55	9.69	0.2875	0.02 - 0.33	0.22	11.12	0.1948	0.18 - 0.35
SIG - Boise Mountains (10108, 101222 101223, 101708) 1027 1028 1029																
		2007	SC	G	0.64	15.41	0.0311	0.15 - 0.66	0.58	4.28	0.5103	0.01 - 0.40	0.06	7.95	0.2418	0.17 - 0.31
101223_101708) 2007 EC		1007														
102903 2007 ERC G 0.63 24.97 0.0016 0.25 - 0.49 0.6 10.23 0.2494 0.04 - 0.21 0.03 27.07 0.0007 0.24 - 0.31 102903 2007 ERC G 0.63 24.97 0.0016 0.25 - 0.49 0.6 10.23 0.2494 0.04 - 0.21 0.03 27.07 0.0007 0.24 - 0.31 10220 2007 SC G 0.63 45.32 0 0.19 - 0.74 0.64 12.4 0.0883 0.03 - 0.04 0.03 27.07 0.0007 0.24 - 0.31 10120 2007 SC H 0.62 21.74 0.0054 0.27 - 0.57 0.87 3.7 0.8133 0.05 - 0.04 0.31 8.08 0.1519 0.17 - 0.32 10122 2007 IC H 0.62 32.52 0.0001 0.26 - 0.55 0.85 5.66 0.6852 0.04 - 0.35 0.54 6.3 0.6139 0.18 - 0.33 101108 2007 SC G 0.62 42.72 0 0.22 - 0.78 0.26 2.678 0.008 0.06 - 0.40 0.6 0.25 0.6191 0.25 - 0.27 SIG - Boise Mountains (101108 101222 1987 - 101223 101708 2007 SC A 0.62 26.17 0.001 0.28 - 0.58 0.87 5.1 0.7465 0.05 - 0.48 0.1512 0.123 0.16 0.18 - 0.32 SIG - Boise Mountains (101108, 101222 1987 - 101223, 101708 2007 SC G 0.6 22.14 0.0047 0.22 - 0.65 0.55 5.82 0.6677 0.05 - 0.27 0.15 8.6 0.1972 0.17 - 0.32 SIG - Boise Mountains (101108, 101222 1987 - 101223, 101708 2007 SC G 0.6 62.45 0 0.18 - 0.78 0.51 11.12 0.1952 0.05 - 0.28 0.8 5.1 0.15 0.16 0.25			IC	Λ	0.64	63.84	0	0.21 0.74	0.81	7 3 1	0.5033	0.04 0.43	0.01	10.74	0.2166	0.24 0.26
1980 1880 1880	101223, 101700)		ic	А	0.04	03.04	0	0.21 - 0.74	0.01	7.31	0.5055	0.04 - 0.43	0.01	10.74	0.2100	0.24 - 0.20
10290 1029	102903	-, -,	ERC	G	0.63	24.97	0.0016	0.25 - 0.49	0.6	10.23	0.2494	0.04 - 0.21	0.03	27.07	0.0007	0.24 - 0.31
1984 1984 1986 1988		1986 -														
101222 2007 SC G 0.63 45.32 0 0.19 - 0.74 0.64 12.4 0.0883 0.03 - 0.42 0.28 3.9 0.5633 0.19 - 0.032	102903		ERC	G	0.63	24.97	0.0016	0.25 - 0.49	0.6	10.23	0.2494	0.04 - 0.21	0.03	27.07	0.0007	0.24 - 0.31
1986 1987 1887 1887	101000		~~		0.50	45.00			0.54	40.4	0.0002	0.00 0.40	0.20	2.0	0.7.00	0.40 0.00
101220 2007 C	101222		SC	G	0.63	45.32	0	0.19 - 0.74	0.64	12.4	0.0883	0.03 - 0.42	0.28	3.9	0.5633	0.19 - 0.32
101220 2007 IC	101220		SC	н	0.62	21.74	0.0054	0.27 - 0.57	0.87	3.7	0.8133	0.05 - 0.40	0.31	8.08	0.1519	0.17 - 0.32
101108 10128 10128 10129 10123 101708 10122 10123 101708 10122 10123 101708 10122 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 101708 10123 10123 101708 10123 10123 101708 10123 10123 10123 101708 10123 10	101220		БС	11	0.02	21.74	0.0054	0.27 0.37	0.07	3.7	0.0133	0.03 0.40	0.51	0.00	0.1317	0.17 0.32
SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) SC K O.62 C.2.14 O.0047 O.22 - O.65	101220	2007	IC	Н	0.62	32.52	0.0001	0.26 - 0.55	0.85	5.66	0.6852	0.04 - 0.35	0.54	6.3	0.6139	0.18 - 0.33
SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) 2007 SC A 0.62 62.53 0.001 0.28 - 0.58 0.87 5.1 0.7465 0.05 - 0.48 0 13.25 0.1035 0.26 - 0.26		1982 -														
101108, 101222, 101708)		2007	SC	G	0.62	42.72	0	0.22 - 0.78	0.26	26.78	0.0008	0.06 - 0.40	0	6.25	0.6191	0.25 - 0.27
101223, 101708) 2007 SC A 0.62 62.53 0 0.23 - 0.83 0.77 5.1 0.7465 0.05 - 0.48 0 13.25 0.1035 0.26 - 0.26 101223 2007 IC H 0.61 26.17 0.001 0.28 - 0.58 0.87 5.01 0.7562 0.04 - 0.41 0.38 8.12 0.4218 0.18 - 0.32 SIG - Boise Mountains (101108, 101222, 101708) 2007 SC U .61 62.75 0 0.18 - 0.79 0.53 9.15 0.2418 0.04 - 0.31 0 8.33 0.3043 0.25 - 0.26 SIG - Boise Mountains (101108, 101222, 101708) 2007 SC K 0.6 22.14 0.0047 0.22 - 0.65 0.55 5.82 0.6677 0.05 - 0.27 0.15 8.6 0.1972 0.17 - 0.32 SIG - Boise Mountains (101108, 101222, 1987 1987 - 101223, 101708) 2007 SC G 0.6 62.45 0 0.18 - 0.78 0.51 11.12 0.1952 0.05 - 0.28 0 8.5 0.3862 0.26 - 0.26 SIG - Boise Mountains (101108, 101222, 1986 1986 1987 - 101223 101708) 2007 SC G 0.51 34.71 0 0.26 - 0.59 0.74 6.41 0.6013 0.04 - 0.41 0.27 9.34 0.3143 0.16 - 0.33 SIG - Boise Mountains (101108, 101222, 1987 1987 - 101223, 101708) 2007 SC G 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 SIG - Boise Mountains (101108, 101222, 1987 1987 - 1987 1997		1007														
101223 2007 1C			SC	۸	0.62	62.53	0	0.23 0.83	0.77	5.1	0.7465	0.05 0.48	0	13 25	0.1035	0.26 0.26
SIG - Boise Mountains (1011203 2007 10 20 20 20 20 20 20 20	101223, 101708)		SC	А	0.02	02.33	0	0.23 - 0.83	0.77	5.1	0.7403	0.03 - 0.48	0	13.23	0.1033	0.20 - 0.20
Control Cont	101223		IC	Н	0.61	26.17	0.001	0.28 - 0.58	0.87	5.01	0.7562	0.04 - 0.41	0.38	8.12	0.4218	0.18 - 0.32
101223, 101708) 2007 SC U .61 62.75 0 0.18-0.79 0.53 9.15 0.2418 0.04-0.31 0 8.33 0.3043 0.25-0.26	SIG – Boise Mountains															
SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) SC K 0.6 22.14 0.0047 0.22 - 0.65 0.55 5.82 0.6677 0.05 - 0.27 0.15 8.6 0.1972 0.17 - 0.32	, , , , , , , , , , , , , , , , , , , ,															
101108, 101222, 1987 - 2007 SC K 0.6 22.14 0.0047 0.22 - 0.65 0.55 5.82 0.6677 0.05 - 0.27 0.15 8.6 0.1972 0.17 - 0.32		2007	SC	U	.61	62.75	0	0.18-0.79	0.53	9.15	0.2418	0.04-0.31	0	8.33	0.3043	0.25-0.26
101223, 101708) 2007 SC K 0.6 22.14 0.0047 0.22 - 0.65 0.55 5.82 0.6677 0.05 - 0.27 0.15 8.6 0.1972 0.17 - 0.32 SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) 2007 SC G 0.6 62.45 0 0.18 - 0.78 0.51 11.12 0.1952 0.05 - 0.28 0 8.5 0.3862 0.26 - 0.26 101220 2007 SC G 0.51 34.71 0 0.26 - 0.59 0.74 6.41 0.6013 0.04 - 0.41 0.27 9.34 0.3143 0.16 - 0.33 SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) 2007 SC F 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 102802 2007 SC F 0.51 87.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 10123 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 10123 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 10123 2007 300		1097														
SIG – Boise Mountains (101108, 101222, 1987 - 2007 SC G 0.6 62.45 0 0.18 - 0.78 0.51 11.12 0.1952 0.05 - 0.28 0 8.5 0.3862 0.26 - 0.26 0.101223, 101708) SIG – Boise Mountains (101222, 1987 - 2007 SC G 0.51 34.71 0 0.26 - 0.59 0.74 6.41 0.6013 0.04 - 0.41 0.27 9.34 0.3143 0.16 - 0.33 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16			SC	K	0.6	22.14	0.0047	0.22 - 0.65	0.55	5.82	0.6677	0.05 - 0.27	0.15	8.6	0.1972	0.17 - 0.32
101223, 101708)	, ,	2007	50		0.0	22.1	0.0017	0.22 0.00	0.00	0.02	0.0077	0.00 0.27	0.10	0.0	0.1772	0.17 0.02
1986 - 2007 SC G 0.51 34.71 0 0.26 - 0.59 0.74 6.41 0.6013 0.04 - 0.41 0.27 9.34 0.3143 0.16 - 0.33	(101108, 101222,	1987 -														
101220 2007 SC G 0.51 34.71 0 0.26 - 0.59 0.74 6.41 0.6013 0.04 - 0.41 0.27 9.34 0.3143 0.16 - 0.33 SIG - Boise Mountains (101108, 101222, 1987 - 101223, 101708) 2007 SC F 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 102802 2007 IC G 0.49 13.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 102802 102802 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 102802 10	101223, 101708)		SC	G	0.6	62.45	0	0.18 - 0.78	0.51	11.12	0.1952	0.05 - 0.28	0	8.5	0.3862	0.26 - 0.26
SIG – Boise Mountains (101108, 101222, 1987 - 2007 SC F 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 101223, 101708) 102802 2007 IC G 0.49 13.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 11987 - 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 11986 - 1	101220		00	C	0.51	24.71	0	0.26 0.50	0.74	6.41	0.6012	0.04 0.41	0.27	0.24	0.21.42	0.16 0.22
1987 - 101223, 101708 2007 SC F 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 1997 - 102802 2007 IC G 0.49 13.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 1987 - 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 1986 -		2007	SC	G	0.51	34./1	0	0.26 - 0.59	0.74	6.41	0.6013	0.04 - 0.41	0.27	9.34	0.3143	0.16 - 0.33
101223,101708) 2007 SC F 0.51 87.13 0 0.27 - 0.80 0.81 5.33 0.7216 0.07 - 0.41 0 33.95 0 0.25 - 0.26 1997 - 102802 2007 IC G 0.49 13.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 1987 - 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 1986 - 19		1987 -														
102802 2007 IC G 0.49 13.13 0.1075 0.29 - 0.48 0.75 8.8 0.3596 0.02 - 0.38 0.44 11.96 0.153 0.13 - 0.38 1987 - 101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 1986 -			SC	F	0.51	87.13	0	0.27 - 0.80	0.81	5.33	0.7216	0.07 - 0.41	0	33.95	0	0.25 - 0.26
101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 1986 -	,															
101223 2007 SC H 0.47 5.91 0.1161 0.30 - 0.62 0.72 8.16 0.0429 0.05 - 0.64 0.9 0.09 0.7663 0.18 - 0.30 1986 -	102802		IC	G	0.49	13.13	0.1075	0.29 - 0.48	0.75	8.8	0.3596	0.02 - 0.38	0.44	11.96	0.153	0.13 - 0.38
1986 -	101222		00	**	0.47	5.01	0.1161	0.20 0.62	0.72	0.17	0.0420	0.05 0.64	0.0	0.00	0.7550	0.10 0.20
	101223	_00,	SC	Н	0.47	5.91	0.1161	0.30 - 0.62	0.72	8.16	0.0429	0.05 - 0.64	0.9	0.09	0.7663	0.18 - 0.30
102903 2007 BI G 0.44 22.04 0.0048 0.29 - 0.61 0.43 13.08 0.1092 0.05 - 0.37 0.61 5.67 0.6847 0.11 - 0.37	102903		BI	G	0.44	22.04	0.0048	0.29 - 0.61	0.43	13.08	0.1092	0.05 - 0.37	0.61	5.67	0.6847	0.11 - 0.37

				FD	FD	FD	FD	LFD	LFD	LFD	LFD_P-	MFD	MFD	MFD	MFD
SIG/Station	Years	Variable	Model	R^2	Chi^2	P-Val	P-Range	R^2	Chi^2	P-Val	Range	R^2	Chi^2	P-Val	P-Range
	1982 -														
101221	2007	SC	G	0.41	33.79	0	0.29 - 0.78	0.54	12.35	0.1363	0.06 - 0.48	0.5	13.48	0.0963	0.08 - 0.37
SIG – (101222, 101223,	1986 -														
101708)	2007	SC	G	0.3	52.46	0	0.26 - 0.62	0.62	11.63	0.1683	0.04 - 0.38	0	12.23	0.1413	0.25 - 0.27
	1997 -														
102802	2007	SC	G	0.11	9.05	0.3384	0.34 - 0.42	0.16	17.52	0.0251	0.05 - 0.23	0.29	10.61	0.2246	0.12 - 0.34
	1986 -														
102903	2007	IC	G	0.07	18.46	0.018	0.35 - 0.40	0.52	13.63	0.092	0.06 - 0.27	0.84	6.6	0.5801	0.08 - 0.42
	1986 -														
102903	2008	SC	G	0.01	22.4	0.0042	0.35 - 0.58	0.15	20.28	0.0093	0.09 - 0.55	0.52	10.44	0.2357	0.00 - 0.36
	1986 -														
102903	2007	SC	G	0.01	22.4	0.0042	0.35 - 0.58	0.15	20.28	0.0093	0.09 - 0.55	0.52	10.44	0.2357	0.00 - 0.36
	1986 -														
102903	2007	SC	G	0.01	22.4	0.0042	0.35 - 0.58	0.15	20.28	0.0093	0.09 - 0.55	0.52	10.44	0.2357	0.00 - 0.36

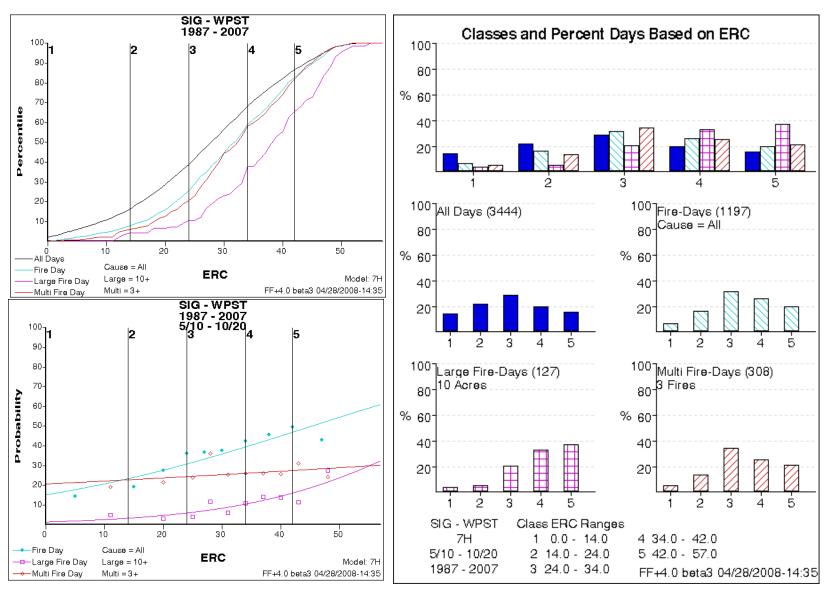
Boise Mountains Dispatch Level

Working Set: Weiser River, Pine Creek, Skihill, Town Creek RAWS 1987-2007, Fuel Model H, Large Fire Acres = 10, Multiple Fire Day = 3. Fire Associations Include: Boise National Forest, Idaho Department of Lands, and Boise District BLM fires within the FDRA boundary.



Boise Mountains Preparedness Level

Working Set: Weiser River, Pine Creek, Skihill, Town Creek RAWS 1987-2007, Fuel Model H, Large Fire Acres = 10, Multiple Fire Day = 3. Fire Associations Include: Boise National Forest, Idaho Department of Lands, and Boise District BLM fires within the FDRA boundary.



Snake River and Foothills FDRA

Individual weather stations were analyzed first to find the best correlation (FDR2). The stations with the best correlation to fire business were then combined into a Special Interest Group (SIG) and analyzed again. Initially From this analysis, Fuel Model C was selected for use with ERC and Fuel Model A was selected for use with BI. After using Fuel Model C with ERC for the Month of June, it became apparent that the narrow range of values was inadequate and Fuel Model G was used instead. Mountain Home, Dead Indian Ridge and Horse Butte were selected for use in the final SIG.

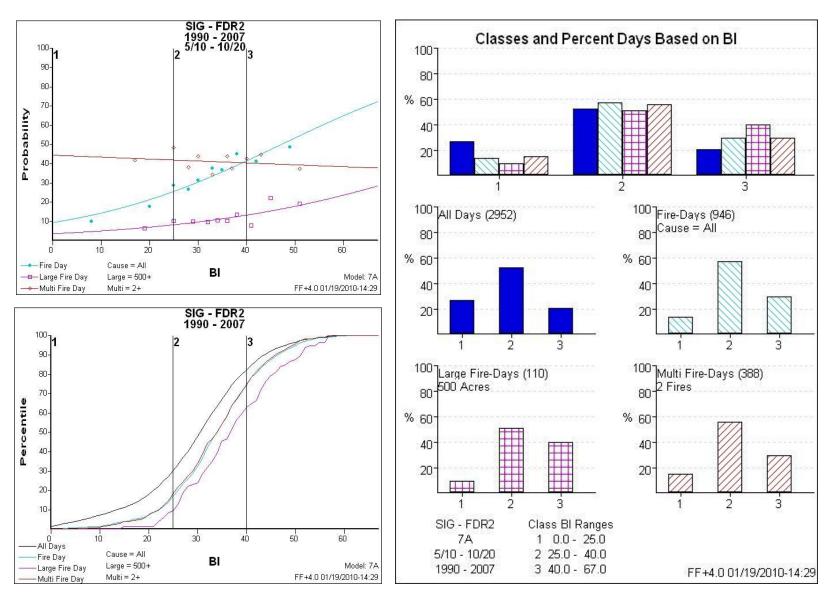
						FD_P-	FD_P-			LFD_P-	LFD_P-				
SIG/Station	Years	VAR	Model	FD_R^2	FD_Chi^2	Val	RAN	LFD_R^2	LFD_Chi^2	Val	RAN	MFD_R^2	MFD_Chi^2	MFD_P-Val	MFD_P-RAN
SIG - FDR2	1996 - 2007	ВІ	7A	0.94	8.2	0.4143	0.10 - 0.73	0.59	14.87	0.0618	0.07 - 0.56	0	7.69	0.4648	0.14 - 0.14
CIG TEXT	1996 -	Di .		0.01	0.2	0.1110	0.10 0.70	0.00	1 1.07	0.0010	0.07 0.00	J	7.00	0.1010	0.11 0.11
SIG - FDR2	2007	BI	7A	0.93	9.79	0.2798	0.09 - 0.74	0.59	14.13	0.0784	0.07 - 0.55	0	4.78	0.7807	0.14 - 0.14
SIG - F2	1996 - 2007	ВІ	7A	0.93	11.35	0.1827	0.08 - 0.74	0.75	8.2	0.4138	0.06 - 0.57	0	8.42	0.3933	0.14 - 0.15
6.6 . 2	1990 -	1		0.00	11100	011021	0.00 0.1 1	0.1.0	0.2	0.1.00	0.00 0.01	-	0.1.2	0.0000	0111 0110
SIG - F2	2008	BI	7A	0.88	22.13	0.0047	0.08 - 0.73	0.73	11.67	0.1664	0.06 - 0.56	0.05	7.14	0.5218	0.15 - 0.19
OIO EDDO	1990 -	Di	7.4	0.00	40.57	0.0404	0.40 0.70	0.55	40.50	0.0470	0.00 0.50	0.05	0.05	0.0070	0.44 0.04
SIG - FDR2	2008 1990 -	BI	7A	0.88	19.57	0.0121	0.10 - 0.72	0.55	18.53	0.0176	0.08 - 0.52	0.25	2.95	0.9372	0.14 - 0.21
SIG - FDRA2	2007	ВІ	7A	0.85	26.14	0.001	0.11 - 0.75	0.77	7.29	0.5055	0.08 - 0.52	0.09	18.31	0.019	0.13 - 0.22
SIG - SNRVR/FTHL	1990 - 2007	ВІ	7A	0.89	36.87	0	0.08 - 0.87	0.77	5.17	0.7393	0.14 - 0.52	0.07	5.77	0.6735	0.16 - 0.21
OIO OITICVIOLITIE	1990 -	Di	773	0.00	00.01		0.00 0.01	0.11	0.17	0.1000	0.11 0.02	0.01	0.11	0.0100	0.10 0.21
102601	2007	BI	7A1AE1	0.97	4.4	0.8198	0.10 - 0.72	0.8	6.66	0.5742	0.08 - 0.56	0.03	7.64	0.4697	0.15 - 0.18
102709	1990 - 2007	ВІ	7A1AE1	0.8	31.97	0.0001	0.14 - 0.77	0.67	11.31	0.1845	0.11 - 0.59	0.21	8.71	0.3676	0.11 - 0.22
102709	1990 -	ы	TATALT	0.0	31.97	0.0001	0.14 - 0.77	0.07	11.31	0.1043	0.11-0.59	0.21	0.71	0.3076	0.11 - 0.22
103205	2007	ВІ	7A1AE1	0.9	11.6	0.1701	0.15 - 0.71	0.55	7.8	0.4536	0.15 - 0.47	0	8.12	0.4217	0.15 - 0.18
103209	1990 - 2007	ВІ	7A1AE1	0.85	14.32	0.0737	0.15 - 0.62	0.64	8.04	0.4298	0.12 - 0.48	0.06	3.7	0.8833	0.13 - 0.22
	1990 -														
101402	2007	BI	7A2AE2	0.97	6.84	0.5537	0.22 - 0.91	0.83	7.77	0.4565	0.12 - 0.50	0.26	17.71	0.0235	0.27 - 0.43
SIG - FDRA2	1990 - 2007	ВІ	7C	0.74	28.25	0.0004	0.12 - 0.65	0.67	10.48	0.233	0.08 - 0.57	0.11	7.01	0.536	0.13 - 0.21
SIG - SNRVR/FOOTHILL	1990 - 2007	ВІ	7C	0.78	52.1	0	0.10 - 0.84	0.61	9.44	0.3063	0.14 - 0.53	0.29	5.56	0.6962	0.12 - 0.27
SIG - SINKVIVI COTTILL	1990 -	ы	70	0.70	32.1	0	0.10 - 0.04	0.01	3.44	0.3003	0.14 - 0.55	0.23	3.50	0.0302	0.12 - 0.21
102601	2007	ВІ	7C1AE1	0.85	18.39	0.0185	0.12 - 0.75	0.88	3.88	0.8677	0.07 - 0.60	0.15	2.64	0.9549	0.15 - 0.19
102709	1990 - 2007	ВІ	7C1AE1	0.63	53.36	0	0.16 - 0.71	0.67	8.6	0.3774	0.12 - 0.57	0.22	7.8	0.4534	0.10 - 0.23
	1990 -		_												
103205	2007 1990 -	BI	7C1AE1	0.81	13.97	0.0825	0.17 - 0.59	0.47	10.96	0.204	0.14 - 0.46	0.04	7.65	0.4682	0.15 - 0.19
103209	1990 - 2007	ВІ	7C1AE1	0.6	22.44	0.0042	0.20 - 0.50	0.6	9.08	0.3356	0.12 - 0.47	0	11.29	0.186	0.13 - 0.21

I	1990) -				[ĺ	ĺ		ĺ	
10140			BI	7C2AE2	0.83	34.02	0	0.25 - 0.89	0.6	17.87	0.0222	0.12 - 0.51	0.27	17.33	0.0268	0.25 - 0.46
10260		7	ВІ	7F1AE1	0.65	54.11	0	0.21 - 0.76	0.47	13.75	0.0887	0.18 - 0.46	0.01	5.51	0.7016	0.16 - 0.18
10140		7	ВІ	7F2AE2	0.86	41.46	0	0.31 - 0.94	0.83	7.96	0.4376	0.15 - 0.53	0.39	13.82	0.0865	0.28 - 0.46
SIG - FDRA2	1990 2007	7	ВІ	7G	0.74	28.25	0.0004	0.12 - 0.65	0.67	10.48	0.233	0.08 - 0.57	0.11	7.01	0.536	0.13 - 0.21
SIG - SNRVR/FTHL	1990 2007	7	ВІ	7G	0.78	52.1	0	0.10 - 0.84	0.61	9.44	0.3063	0.14 - 0.53	0.29	5.56	0.6962	0.12 - 0.27
10260		7	ВІ	7G1AE1	0.79	20.03	0.0102	0.13 - 0.71	0.74	7.57	0.4767	0.08 - 0.57	0.04	6.13	0.633	0.16 - 0.18
10270		7	ВІ	7G1AE1	0.6	37.6	0	0.17 - 0.67	0.54	12.15	0.1445	0.12 - 0.56	0.17	8.98	0.344	0.10 - 0.23
10320	_	7	ВІ	7G1AE1	0.72	22.89	0.0035	0.16 - 0.63	0.62	4.86	0.7722	0.14 - 0.49	0.02	6.52	0.5889	0.15 - 0.18
10320		7	ВІ	7G1AE1	0.52	31.49	0.0001	0.19 - 0.55	0.55	10.25	0.2476	0.12 - 0.48	0	7.13	0.5229	0.13 - 0.21
10140		7	ВІ	7G2AE2	0.76	47.41	0	0.24 - 0.88	0.64	12.96	0.1134	0.12 - 0.48	0.29	21.32	0.0063	0.24 - 0.46
SIG - FDRA2	1990 2007	7	ВІ	7K	0.58	47.03	0	0.14 - 0.64	0.75	5.44	0.71	0.10 - 0.55	0.28	2.49	0.9623	0.13 - 0.21
SIG - SNRVR/FTHL	1990 2007	7	ВІ	7K	0.86	33.88	0	0.11 - 0.88	0.64	7.18	0.5175	0.16 - 0.52	0.13	10.51	0.2311	0.14 - 0.23
10260		7	ВІ	7K1AE1	0.89	12.92	0.1147	0.10 - 0.71	0.85	4.62	0.7971	0.06 - 0.60	0.22	1.55	0.9918	0.14 - 0.19
10270		7	ВІ	7K1AE1	0.76	17.55	0.0248	0.15 - 0.64	0.79	5.45	0.7086	0.09 - 0.58	0.16	8.92	0.3487	0.11 - 0.23
10320		7	ВІ	7K1AE1	0.85	13.28	0.1024	0.14 - 0.63	0.47	12.19	0.143	0.12 - 0.49	0.01	5.71	0.6802	0.16 - 0.17
10320		7	ВІ	7K1AE1	0.68	16.74	0.033	0.17 - 0.50	0.68	6.16	0.6293	0.10 - 0.46	0	8.96	0.3455	0.13 - 0.22
10140		7	ВІ	7K2AE2	0.8	36.09	0	0.22 - 0.87	0.69	11.52	0.1739	0.11 - 0.48	0.24	15.71	0.0467	0.26 - 0.43
SIG - FDRA2	1990 2007	7	ВІ	7L	0.85	22.59	0.0039	0.11 - 0.68	0.78	7.24	0.5113	0.08 - 0.54	0.11	10.89	0.2079	0.13 - 0.22
SIG - SNRVR/FTHL	1990 2007		ВІ	7L	0.87	38.45	0	0.09 - 0.88	0.72	6.92	0.5454	0.14 - 0.55	0.11	10.4	0.238	0.15 - 0.22
SIG/Station	Year		VAR	Model	FD_R^2	FD_Chi^2	FD_P- Val	FD_P- RAN	LFD_R^2	LFD_Chi^2	LFD_P- Val	LFD_P- RAN	MFD_R^2	MFD_Chi^2	MFD_P-Val	MFD_P-RAN
10260		7	ВІ	7L1AE1	0.95	6.33	0.6107	0.11 - 0.68	0.8	6.88	0.55	0.07 - 0.57	0.04	7.9	0.443	0.15 - 0.18
10270		7	ВІ	7L1AE1	0.8	31.32	0.0001	0.15 - 0.73	0.84	4.51	0.8082	0.10 - 0.60	0.19	8.13	0.4206	0.12 - 0.21
10320		7	ВІ	7L1AE1	0.89	11.8	0.1604	0.16 - 0.71	0.61	5.59	0.6935	0.14 - 0.47	0	11.22	0.1897	0.16 - 0.17
10320		7	ВІ	7L1AE1	0.85	12.53	0.1292	0.16 - 0.60	0.9	2.17	0.9753	0.11 - 0.49	0.02	17.37	0.0265	0.13 - 0.22
10140		7	ВІ	7L2AE2	0.95	11.6	0.1699	0.23 - 0.90	0.85	6.29	0.6143	0.12 - 0.50	0.26	17.64	0.0241	0.28 - 0.42
SIG - FDRA2	1990 2007	7	ВІ	7T	0.85	22.59	0.0039	0.11 - 0.68	0.78	7.24	0.5113	0.08 - 0.54	0.11	10.89	0.2079	0.13 - 0.22
SIG - SNRVR/FTHL	1990 2007	7	ВІ	7T	0.87	38.45	0	0.09 - 0.88	0.72	6.92	0.5454	0.14 - 0.55	0.11	10.4	0.238	0.15 - 0.22
10260	1990 1 2007		ВІ	7T1AE1	0.74	38.9	0	0.16 - 0.78	0.7	8.64	0.3739	0.12 - 0.55	0.01	9.16	0.3288	0.16 - 0.17

102709	1990 - 2007	ВІ	7T1AE1	0.58	66.82	0	0.19 - 0.71	0.7	6.54	0.5871	0.15 - 0.53	0.26	6.88	0.5494	0.09 - 0.22
103205	1990 - 2007	BI	7T1AE1	0.7	25.38	0.0013	0.19 - 0.59	0.28	18.33	0.0189	0.16 - 0.44	0.12	6.03	0.6438	0.14 - 0.21
103209	1990 - 2007	BI	7T1AE1	0.59	30.87	0.0001	0.21 - 0.53	0.46	13.7	0.0898	0.15 - 0.45	0	8.06	0.4278	0.14 - 0.19
101402	1990 - 2007	ВІ	7T2AE2	0.79	53.79	0	0.29 - 0.93	0.79	7.85	0.4481	0.14 - 0.52	0.4	14.72	0.0648	0.25 - 0.49
SIG - FDRA2	1990 - 2007	ВІ	7U	0.74	28.25	0.0004	0.12 - 0.65	0.67	10.48	0.233	0.08 - 0.57	0.11	7.01	0.536	0.13 - 0.21
SIG - SNRVR/FTHL	1990 - 2007	ВІ	7U	0.78	52.1	0	0.10 - 0.84	0.61	9.44	0.3063	0.14 - 0.53	0.29	5.56	0.6962	0.12 - 0.27
102601	1990 - 2007	ВІ	7U1AE1	0.87	17.89	0.0221	0.10 - 0.75	0.84	5.34	0.7209	0.06 - 0.62	0.24	2.46	0.9634	0.14 - 0.20
102709	1990 - 2007	ВІ	7U1AE1	0.73	33.88	0	0.14 - 0.71	0.8	5.01	0.757	0.10 - 0.59	0.37	4.22	0.8365	0.10 - 0.23
103205	1990 - 2007	ВІ	7U1AE1	0.83	15.68	0.0472	0.15 - 0.63	0.91	0.96	0.9985	0.13 - 0.48	0.02	13.15	0.1069	0.15 - 0.18
103209	1990 - 2007	ВІ	7U1AE1	0.72	16.08	0.0412	0.18 - 0.51	0.65	8.35	0.4	0.11 - 0.47	0	4.79	0.7794	0.13 - 0.21
101402	1990 - 2007	ВІ	7U2AE2	0.84	36.16	0	0.21 - 0.89	0.7	13.09	0.1089	0.11 - 0.51	0.29	17.06	0.0294	0.25 - 0.45
SIG - FDRA2	2002 - 2007	ВІ	7A	0.7	23.1	0.0032	0.10 - 0.78	0.65	5.06	0.7511	0.07 - 0.50	0	4.01	0.8561	0.11 - 0.14
SIG - SNRVR/FTHL	2002 - 2007	ВІ	7A	0.86	16.53	0.0354	0.07 - 0.85	0.58	5.84	0.6657	0.07 - 0.50	0.08	9.09	0.3347	0.09 - 0.23
102709	2002 -	ВІ	7A1AE1	0.73	17.98	0.0214	0.13 - 0.76	0.54	12.82	0.1183	0.07 - 0.61	0.01	6.37	0.6057	0.11 - 0.14
103205	2002 - 2007 2002 -	ВІ	7A1AE1	0.86	7.18	0.5173	0.14 - 0.76	0.41	3.85	0.8701	0.14 - 0.43	0.01	9.2	0.3259	0.10 - 0.16
103209	2007	ВІ	7A1AE1	0.84	6.53	0.5876	0.14 - 0.64	0.47	5.52	0.701	0.12 - 0.43	0.01	7.92	0.4417	0.12 - 0.14
SIG - FDRA2	2002 - 2007 2002 -	ВІ	7L	0.74	15.29	0.0538	0.11 - 0.69	0.74	3.52	0.8975	0.07 - 0.52	0	3.13	0.926	0.10 - 0.15
SIG - SNRVR/FTHL	2002 -	ВІ	7L	0.78	24.83	0.0017	0.08 - 0.86	0.41	9.44	0.3065	0.08 - 0.52	0.07	7.31	0.504	0.09 - 0.24
102709	2007	ВІ	7L1AE1	0.66	23.24	0.0031	0.14 - 0.70	0.59	9.08	0.3355	0.07 - 0.62	0.01	7.77	0.4562	0.11 - 0.15
103205	2007	ВІ	7L1AE1	0.72	14.61	0.0671	0.15 - 0.75	0.17	10.06	0.2607	0.14 - 0.43	0.03	7.6	0.4735	0.10 - 0.17
103209	2007	ВІ	7L1AE1	0.68	10.52	0.2306	0.16 - 0.59	0.44	6.92	0.5458	0.12 - 0.42	0	6.9	0.5479	0.12 - 0.13
SIG - FDRA 2	2007	ВІ	7A	0.86	18.29	0.0191	0.13 - 0.67	0.7	5.73	0.6776	0.12 - 0.47	0.04	8.01	0.4321	0.14 - 0.20
SIG - FDRA 2	2007	ВІ	7L	0.86	18.29	0.0191	0.13 - 0.67	0.7	5.73	0.6776	0.12 - 0.47	0.04	8.01	0.4321	0.14 - 0.20

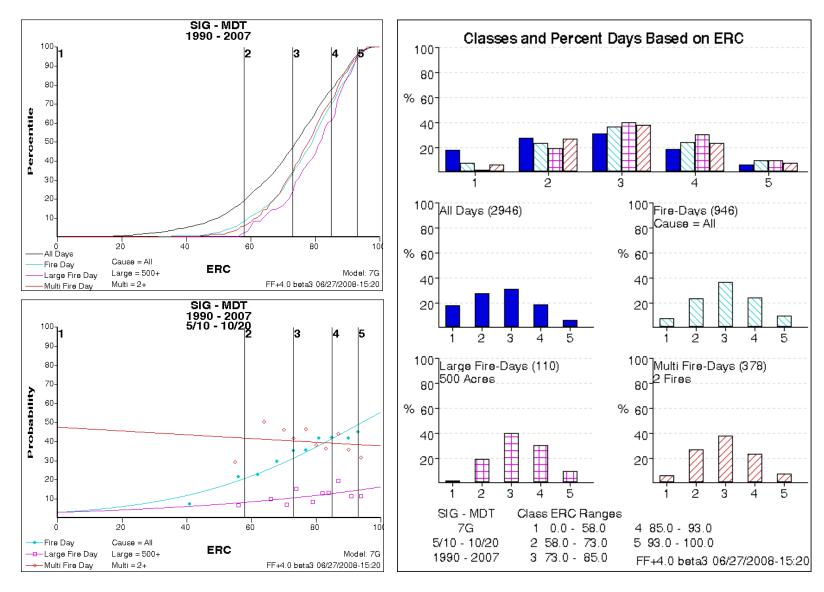
Snake River and Foothills Dispatch Level

Working Set: Dead Indian Ridge, Mountain Home, Horse Butte RAWS 1990-2007, Fuel Model A, Large Fire Acres = 500, Multiple Fire Day = 2. Fire Associations Include: Boise District BLM, Idaho Department of Lands and Boise National Forest fires within the FDRA.



Snake River and Foothills Preparedness Level

Working Set: Dead Indian Ridge, Mountain Home, Twin Buttes RAWS 1990-2007, Fuel Model G, Large Fire Acres = 500, Multiple Fire Day = 2. Fire Associations Include: Boise District BLM, Idaho Department of Lands and Boise National Forest fires within the FDRA.



Owyhee Canyonlands FDRA

Individual weather stations were analyzed first to find the best correlation (FD R2). The stations with the best correlation to fire business were then combined into a Special Interest Group (SIG) and analyzed again. From this analysis, Fuel Model T was selected for use with ERC and BI. Owyhee Ridge, Brace Flat, Pole Creek and Triangle were selected for use in the final SIG.

SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
	1985 -						3				0.15 -				0.00 -
353614	2007	IC	R	0.96	2.88	0.9419	0.02 - 0.20	0.73	3.3	0.914	0.60	0.48	2.98	0.3947	0.10
	1985 -										0.06 -				0.00 -
353614	2007	ERC	L	0.94	5.5	0.3583	0.01 - 0.21	0.68	4.7	0.1954	0.60	0.89	0.36	0.5487	0.07
	1985 -		_								0.14 -				0.00 -
353614	2007	IC	F	0.91	6.6	0.5799	0.02 - 0.14	0.72	5.08	0.7486	0.54	0.39	2.19	0.5345	0.06
252614	1985 -	IC		0.0	0.10	0.4156	0.02 0.20	0.41	12.06	0.1000	0.17 -	0.45	2.02	0.2072	0.00 -
353614	2007	IC	L	0.9	8.18	0.4156	0.02 - 0.20	0.41	13.06	0.1098	0.60	0.45	3.03	0.3872	0.09
353614	1985 - 2007	ERC	A	0.88	5.32	0	0.02 - 0.12	1	0.01	0.9079	0.11 - 0.53	0.95	0.1	0	0.00 - 0.06
333014	1985 -	EKC	A	0.88	3.32	U	0.02 - 0.12	1	0.01	0.9079	0.33	0.93	0.1	U	0.00 -
353614	2007	BI	L	0.88	6.73	0.5661	0.02 - 0.29	0.51	8.46	0.3896	0.12 -	0.41	3.73	0.2916	0.00 -
333014	1985 -	Di	<u> </u>	0.00	0.73	0.5001	0.02 0.2)	0.51	0.40	0.3070	0.07 -	0.41	3.73	0.2710	0.00 -
353614	2007	BI	R	0.88	7.34	0.5001	0.01 - 0.28	0.79	2.41	0.9656	0.76	0.27	8	0.046	0.22
	1985 -					0.000	0.00			0.5000	0.17 -				0.00 -
353614	2007	IC	L	0.88	7.37	0.4977	0.02 - 0.19	0.48	8.96	0.3459	0.60	0.45	2.99	0.3927	0.09
	1985 -										0.07 -				0.00 -
353614	2007	ERC	T	0.87	8.74	0.3644	0.02 - 0.17	0.85	2.47	0.9629	0.61	0.99	0.03	0.9845	0.08
	1985 -										0.13 -				0.00 -
353614	2007	BI	A	0.86	8.06	0.4274	0.02 - 0.30	0.54	8.1	0.4234	0.64	0.12	12.25	0.0066	0.11
	1985 -										0.18 -				0.00 -
353614	2007	IC	A	0.86	9.04	0.339	0.03 - 0.24	0.53	8.37	0.3984	0.64	0.21	10.75	0.0131	0.11
	1985 -										0.15 -				0.00 -
353614	2007	IC	T	0.86	9.1	0.3338	0.02 - 0.24	0.58	8.73	0.3655	0.63	0.59	2.05	0.5619	0.10
102200	1990 -	EDG		0.05	10.0	0.2124	0.01 0.10	0.41	7.24	0.5004	0.06 -		1.26	0.0260	0.00 -
103209	2007	ERC	T	0.85	10.8	0.2134	0.01 - 0.18	0.41	7.34	0.5004	0.53	0	4.36	0.0368	0.06
102210	1990 - 2007	ERC	Т	0.85	11.20	0.1057	0.02 0.10	0.64	4.95	0.7624	0.10 - 0.60	0.6	1.05	0.2622	0.00 - 0.14
103210	1985 -	ERC	1	0.85	11.29	0.1857	0.02 - 0.19	0.04	4.95	0.7624	0.00	0.6	1.25	0.2632	0.14
353614	2007	BI	Т	0.84	10.57	0.2275	0.02 - 0.28	0.86	1.91	0.9837	0.11 -	0.41	4.06	0.2555	0.00 -
333014	1985 -	DI	1	0.64	10.57	0.2213	0.02 - 0.28	0.80	1.71	0.9637	0.77	0.41	4.00	0.2333	0.19
353614	2007	ERC	R	0.84	13.33	0.1009	0.00 - 0.16	0.67	4.36	0.8237	0.59	0.91	0.45	0.7981	0.00
333014	1985 -	Like	IX.	0.04	13.33	0.1007	0.00 0.10	0.07	4.50	0.0237	0.21 -	0.71	0.43	0.7701	0.01 -
353614	2007	SC	R	0.81	6.68	0.5711	0.03 - 0.35	0.47	7.3	0.1995	0.79	0.29	5.35	0.0688	0.24
-	1985 -										0.22 -				0.01 -
353614	2007	SC	L	0.79	10.57	0.2275	0.03 - 0.34	0.39	10.96	0.2041	0.60	0.31	4.06	0.2555	0.08
	1985 -										0.22 -				0.01 -
353614	2007	SC	L	0.79	10.57	0.2275	0.03 - 0.34	0.39	10.96	0.2041	0.60	0.31	4.06	0.2555	0.08
	1990 -										0.02 -				0.00 -
103209	2007	ERC	R	0.79	13.13	0.1073	0.00 - 0.17	0.35	5.45	0.4872	0.50	0.25	1.81	0.4056	0.08

SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
2-3/211113-	1990 -										0.15 -				0.01 -
103209	2007	ERC	L	0.78	9.45	0.0508	0.01 - 0.18	0.52	1.5	0.6828	0.49	0	1.07	0.3016	0.04
	1990 -										0.15 -				0.00 -
103209	2007	ERC	F	0.75	17.78	0.023	0.02 - 0.21	0.43	8.96	0.3453	0.57	0	2.02	0.3637	0.08
252511	1985 -	~~		0.74	10.50	0.4055		0.45	0.00	0.4050	0.21 -	0.45		0.5.50	0.01 -
353614	2007	SC	A	0.74	12.62	0.1257	0.03 - 0.37	0.47	8.08	0.4253	0.66	0.47	2.02	0.5679	0.10
353614	1985 - 2007	ERC	F	0.74	19.54	0.0122	0.02 - 0.22	0.47	9.47	0.3045	0.16 - 0.64	0.28	3.82	0.2816	0.00 - 0.09
333014	1990 -	EKC	Г	0.74	19.54	0.0122	0.02 - 0.22	0.47	9.47	0.3043	0.04	0.28	3.62	0.2810	0.09
103209	2007	ERC	A	0.73	10.13	0	0.02 - 0.11	0.87	0.18	0.6755	0.21 -	0.8	0.34	0	0.00 -
100209	1990 -	Lite		0170	10.10		0.02 0.11	0.07	0.10	0.0700	0.23 -	0.0	0.0.		0.01 -
103210	2007	BI	T	0.73	16.87	0.0315	0.02 - 0.34	0.28	14.22	0.0762	0.64	0.33	3.77	0.1518	0.12
SIG – Owyhee															
Canyonlands (353614,	1990 -										0.05 -				0.00 -
103207, 103208, 103210)	2007	ERC	T	0.73	23.18	0.0031	0.01 - 0.20	0.67	5.43	0.7107	0.59	0.71	0.83	0.3623	0.10
	1990 -										0.29 -				0.02 -
103210	2007	SC	F	0.72	13.87	0.0851	0.04 - 0.43	0.55	5.94	0.6535	0.75	0.35	2.14	0.3425	0.12
102210	1990 - 2007	BI	R	0.72	14.34	0.0733	0.02 0.20	0.3	5.34	0.7207	0.25 - 0.54	0.9	0.18	0.0127	0.01 - 0.13
103210 SIG – Owyhee	2007	ВІ	K	0.72	14.54	0.0733	0.02 - 0.30	0.3	5.34	0.7207	0.54	0.9	0.18	0.9137	0.13
Canyonlands (353614,	1990 -										0.10 -				0.00 -
103207, 103208, 103210)	2007	BI	Т	0.72	18.53	0.0176	0.02 - 0.29	0.68	5.46	0.7076	0.80	0.39	5.54	0.0625	0.00
	1990 -					010010	0.00	0.00			0.23 -	0.07		010020	0.01 -
103210	2007	BI	F	0.71	17.29	0.0272	0.03 - 0.30	0.61	5.47	0.7059	0.70	0.55	1.94	0.3789	0.13
	1990 -										0.05 -				0.00 -
103208	2007	ERC	R	0.71	25.13	0.0015	0.01 - 0.17	0.72	3.01	0.9336	0.54	0.33	1.13	0.2884	0.20
	1990 -										0.05 -				0.00 -
103207	2007	ERC	Т	0.71	25.86	0.0011	0.01 - 0.18	0.63	6.38	0.6043	0.65	0.83	0.54	0.7622	0.15
102200	1990 -	10	-	0.7	20.20	0.0002	0.02 0.12	0.21	10.76	0.2157	0.16 -		1.05	0.2770	0.01 -
103209 SIG – (103207, 103208,	2007 1990 -	IC	F	0.7	20.29	0.0093	0.02 - 0.13	0.31	10.76	0.2157	0.47	0	1.95	0.3779	0.04
103210)	2007	ERC	Т	0.7	26.85	0.0007	0.01 - 0.19	0.41	12.68	0.1234	0.67 -	0.86	0.6	0.7408	0.00 -
103210)	1985 -	LIKC	1	0.7	20.03	0.0007	0.01 - 0.17	0.41	12.00	0.1234	0.02	0.00	0.0	0.7400	0.10
353614	2007	SC	F	0.68	17.07	0.0294	0.04 - 0.27	0.61	7.98	0.4353	0.73	0.16	3.23	0.357	0.09
	1985 -			0.00		***************************************	0.0.				0.18 -	0110			0.01 -
353614	2007	BI	F	0.67	23.52	0.0028	0.03 - 0.25	0.65	7.2	0.5157	0.67	0.39	3.21	0.36	0.09
	1990 -										0.06 -				0.00 -
103208	2007	BI	R	0.66	17.5	0.0253	0.02 - 0.22	0.58	8.33	0.4016	0.70	0.7	1.91	0.3841	0.22
	1990 -										0.05 -				0.01 -
103207	2007	ERC	A	0.66	19.59	0	0.02 - 0.17	0.99	0.08	0.7828	0.54	0	0.31	0	0.03
102210	1990 -	IC	T	0.65	24.02	0.0022	0.02 0.20	0.53	570	0.674	0.21 -	0.52	1.0	0.4063	0.01 -
103210	2007 1990 -	IC	T	0.65	24.02	0.0023	0.03 - 0.20	0.52	5.76	0.674	0.60 0.07 -	0.53	1.8	0.4062	0.10
103210	1990 - 2007	ERC	R	0.65	26.67	0.0008	0.01 - 0.16	0.64	1.93	0.9635	0.07 -	0	1.33	0.2491	0.00 - 0.13
103410	1990 -	EKC	N	0.03	20.07	0.0008	0.01 - 0.10	0.04	1.73	0.9033	0.55	U	1.33	0.2491	0.13
103210	2007	BI	L	0.64	19.93	0.0106	0.03 - 0.30	0.15	12	0.1514	0.24 -	0.99	0.02	0.9918	0.01 -

SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
510/544101	1985 -	, 1111111111111111111111111111111111111	1120002		- CALL 2	2 / 142	1 Itunge		- CAR 2	2 / 112	0.23 -		- CAR 2		0.01 -
353614	2007	SC	F	0.64	21.83	0.0052	0.04 - 0.34	0.6	9.98	0.2663	0.74	0.14	3.3	0.347	0.09
	1990 -										0.12 -				0.00 -
103210	2007	ERC	A	0.64	24.17	0	0.02 - 0.21	0.68	1.62	0.2025	0.52	0	0.28	0	0.05
	1985 -										0.23 -				0.01 -
353614	2007	SC	T	0.63	22.76	0.0037	0.04 - 0.41	0.25	21.09	0.0069	0.82	0.47	1.78	0.6203	0.20
	1990 -										0.19 -				0.01 -
103209	2007	BI	F	0.63	26.67	0.0008	0.03 - 0.23	0.43	9.91	0.2711	0.62	0.46	1.82	0.403	0.08
SIG – (103207, 103208,	1990 -										0.11 -				0.00 -
103210)	2007	BI	T	0.62	29.14	0.0003	0.02 - 0.30	0.71	5.04	0.7536	0.78	0.67	1.96	0.3759	0.26
	1990 -		_								0.18 -				0.00 -
103210	2007	IC	F	0.62	31.1	0.0001	0.02 - 0.13	0.52	5.88	0.6603	0.52	0.49	5.24	0.0729	0.08
102210	1990 -	DI		0.61	22.69	0.0026	0.02 0.22	0.2	67	0.5600	0.24 -	0.00	0.14	0.0224	0.01 -
103210	2007 1990 -	BI	Α	0.61	23.68	0.0026	0.03 - 0.32	0.3	6.7	0.5689	0.62	0.88	0.14	0.9324	0.12
103210	2007	ERC	F	0.61	28.38	0.0004	0.03 - 0.22	0.54	6.39	0.604	0.17 -	0.38	4.93	0.0852	0.00 -
103210	1990 -	EKC	r	0.01	20.30	0.0004	0.03 - 0.22	0.54	0.39	0.004	0.00	0.36	4.93	0.0632	0.14
103207	2007	ERC	R	0.61	32.67	0.0001	0.00 - 0.18	0.74	2.11	0.9536	0.03 -	0.53	1.22	0.2687	0.00 -
103207	1990 -	EKC	K	0.01	32.07	0.0001	0.00 - 0.18	0.74	2.11	0.9330	0.16 -	0.55	1.22	0.2001	0.20
103209	2007	IC	R	0.6	15.67	0.0474	0.02 - 0.13	0.46	7.35	0.4993	0.10	0.11	3.78	0.1511	0.01
10020)	1990 -	10		0.0	10.07	0.0 . , .	0.02 0.12	00	7.00	0,,,	0.11 -	0.11	2.70	0.1011	0.00 -
103207	2007	BI	R	0.6	15.93	0.0434	0.02 - 0.26	0.31	13.66	0.091	0.64	0.26	5.24	0.0728	0.15
	1990 -										0.13 -				0.00 -
103207	2007	BI	T	0.6	22.14	0.0047	0.03 - 0.31	0.58	7.81	0.4522	0.71	0.7	2.13	0.3441	0.18
	1990 -										0.12 -				0.00 -
103208	2007	ERC	T	0.6	27.8	0.0005	0.02 - 0.20	0.75	2.72	0.9505	0.62	0.9	0.49	0.7828	0.20
SIG – Owyhee															
Canyonlands (353614,	1990 -										0.11 -				0.00 -
103207, 103208, 103210)	2007	IC	T	0.6	27.97	0.0005	0.02 - 0.27	0.73	5.19	0.7372	0.74	0.68	1.98	0.3722	0.17
SIG – Owyhee															
Canyonlands (353614,	1990 -			0.50	2 - 00	0.004		0.50	0.05	0.40.5	0.11 -	0.42	2.05		0.00 -
103207, 103208, 103210)	2007	BI	A	0.59	26.09	0.001	0.02 - 0.28	0.53	8.07	0.4267	0.72	0.62	2.07	0.3555	0.21
SIG – Owyhee	1000										0.05				0.00
Canyonlands (353614, 103207, 103208, 103210)	1990 - 2007	ERC	A	0.65	26.88	0	0.01 - 0.22	0.93	0.63	0.427	0.05 - 0.58	0	0.14	0	0.00 - 0.05
SIG – Owvhee	2007	EKC	A	0.03	20.00	U	0.01 - 0.22	0.93	0.03	0.427	0.38	U	0.14	U	0.03
Canyonlands (353614,	1990 -										0.15 -				0.00 -
103207, 103208, 103210)	2007	IC	A	0.53	32.19	0.0001	0.03 - 0.27	0.49	10.03	0.2627	0.13 -	0.61	2.02	0.364	0.00 -
SIG – Owyhee	2007	10	- 11	0.55	32.17	3.0001	0.03 0.27	0.47	10.03	0.2021	0.75	0.01	2.02	0.504	0.22
Canyonlands (353614,	1990 -										0.21 -				0.01 -
103207, 103208, 103210)	2007	SC	A	0.53	20.62	0.0082	0.04 - 0.28	0.69	3.11	0.9271	0.73	0.64	1.7	0.4269	0.20
.,,,	1990 -	-									0.12 -				0.00 -
103207	2007	IC	R	0.59	19.45	0.0127	0.03 - 0.16	0.47	10.68	0.2203	0.68	0.35	5.29	0.0709	0.14
	1990 -										0.21 -				0.00 -
103210	2007	IC	R	0.59	27.02	0.0007	0.02 - 0.18	0.41	6.88	0.5499	0.55	0.27	6.21	0.0448	0.10

SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
SIG - (103207, 103208,	1990 -										0.12 -				0.00 -
103210)	2007	IC	T	0.59	29.42	0.0003	0.03 - 0.23	0.9	1.35	0.9949	0.73	0.62	2.04	0.3604	0.17
100007	1990 -	TD G		0.50	20.24		0.04 0.40	0.55	2.55	0.4555	0.07 -				0.00 -
103207	2007	ERC	L	0.59	30.24	0	0.01 - 0.18	0.66	2.55	0.4656	0.55	0	1.55	0	0.05
103208	1990 - 2007	BI	L	0.58	19.37	0.013	0.03 - 0.20	0.61	5.96	0.6521	0.12 - 0.68	0.68	1.98	0.3719	0.00 - 0.17
103208	1990 -	DI	L	0.38	19.57	0.013	0.03 - 0.20	0.01	3.90	0.0321	0.08	0.08	1.98	0.3719	0.17
103208	2007	ERC	L	0.58	28.22	0.0001	0.02 - 0.16	0.7	2.49	0.6466	0.12 -	0.05	0.42	0.5173	0.00 -
103208	1990 -	EKC	L	0.56	20.22	0.0001	0.02 - 0.10	0.7	2.49	0.0400	0.12 -	0.03	0.42	0.3173	0.09
103207	2007	IC	F	0.58	34.83	0	0.02 - 0.13	0.45	15.14	0.0564	0.12	0.2	4.36	0.1132	0.07
100207	1990 -	10	-	0.00	202	-	0.02 0.12	0	10.11	0.000	0.14 -	0.2		0.1102	0.00 -
103207	2007	IC	Т	0.57	27.07	0.0007	0.03 - 0.17	0.43	12.05	0.1489	0.75	0.6	1.78	0.4103	0.17
	1990 -										0.16 -				0.00 -
103208	2007	ERC	A	0.57	28.15	0	0.02 - 0.18	0.58	1.94	0.1635	0.50	0.66	0.21	0	0.09
	1990 -										0.16 -				0.00 -
103207	2007	BI	F	0.56	28.66	0.0004	0.03 - 0.27	0.61	9.35	0.3137	0.73	0.83	1.22	0.5425	0.28
	1990 -										0.11 -				0.00 -
103208	2007	IC	R	0.54	28.91	0.0003	0.03 - 0.16	0.67	5.7	0.6812	0.72	0.7	2.01	0.3669	0.23
	1990 -										0.27 -				0.02 -
103209	2007	SC	F	0.53	26.75	0.0008	0.04 - 0.28	0.37	5.86	0.6629	0.72	0.24	2.08	0.3535	0.09
	1990 -										0.27 -				0.02 -
103209	2007	SC	F	0.53	26.75	0.0008	0.04 - 0.28	0.37	5.86	0.6629	0.72	0.24	2.08	0.3535	0.09
10000	1990 -		_	0.50	20.02	0.0002			0.24	0.4405	0.12 -	0.50	4.0	0.000	0.00 -
103208	2007	BI	T	0.53	28.83	0.0003	0.03 - 0.27	0.55	8.24	0.4105	0.71	0.69	1.9	0.3863	0.21
102200	1990 -	IC	T.	0.50	17	0.0201	0.02 0.14	0.52	4.21	0.0270	0.21 -	0.00	0.17	0.0405	0.01 -
103209	2007	IC	T	0.52	17	0.0301	0.03 - 0.14	0.53	4.31	0.8279	0.55	0.82	0.17	0.9185	0.05
103210	1990 - 2007	SC	R	0.52	19.35	0.0131	0.04 - 0.36	0.04	7.32	0.292	0.35 - 0.48	0.64	0.46	0.793	0.02 - 0.08
103210	1990 -	SC	K	0.32	19.55	0.0131	0.04 - 0.30	0.04	1.32	0.292	0.48	0.04	0.40	0.793	
103208	2007	BI	Α	0.5	26.99	0.0007	0.03 - 0.21	0.52	8.94	0.3478	0.12 -	0.61	1.89	0.388	0.00 -
103206	1990 -	DI	Λ	0.5	20.77	0.0007	0.03 - 0.21	0.32	0.74	0.5476	0.71	0.01	1.07	0.000	0.10
103207	2007	SC	F	0.5	27.68	0.0005	0.05 - 0.43	0.55	9.09	0.3344	0.22	0.71	1.8	0.4067	0.01
103207	1990 -	Be	1	0.5	27.00	0.0005	0.05 0.15	0.55	7.07	0.5511	0.15 -	0.71	1.0	0.1007	0.00 -
103208	2007	IC	L	0.5	29.05	0.0003	0.03 - 0.15	0.47	11.33	0.1835	0.67	0.44	4.73	0.094	0.15
	1990 -		_				0.00				0.14 -				0.00 -
103207	2007	ERC	F	0.5	40.7	0	0.03 - 0.20	0.71	4.21	0.8378	0.70	0.77	1.03	0.5961	0.25
	2005 -										0.22 -				0.00 -
103211	2007	ERC	T	0.49	4	0	0.02 - 0.11	0.08	4.27	0.2337	0.48	0	0.01	0	0.50
	1990 -										0.16 -				0.00 -
103208	2007	IC	F	0.49	36.37	0	0.03 - 0.14	0.8	2.36	0.9679	0.60	0.86	0.65	0.7225	0.11
	1990 -										0.13 -				0.00 -
103210	2007	ERC	L	0.49	39.25	0	0.02 - 0.18	0.42	3.22	0.3586	0.60	0	1.59	0	0.16
	1990 -										0.18 -]			0.00 -
103208	2007	ERC	F	0.48	36.85	0	0.03 - 0.27	0.42	9.13	0.3313	0.69	0.47	6.37	0.0413	0.31
	1990 -										0.24 -				0.01 -
103210	2007	IC	L	0.47	40.15	0	0.03 - 0.17	0.21	10.64	0.2227	0.54	0.54	2	0.3681	0.10
SIG/Station		Variable	Model	FD	FD	FD	FD	LFD	LFD	LFD	LFD	MFD	MFD	MFD	MFD

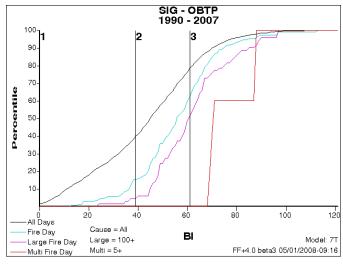
	Years			R^2	Chi^2	P-Val	P-Range	R^2	Chi^2	P-Val	P-Range	R^2	Chi^2	P-Val	P-Range
	1990 -										0.23 -				0.02 -
103209	2007	BI	L	0.46	14.62	0.067	0.03 - 0.15	0.21	8.84	0.3558	0.53	0.79	0.06	0.9726	0.04
SIG – Owyhee															
Canyonlands (353614,	1990 -										0.23 -				0.01 -
103207, 103208, 103210)	2007	SC	T	0.46	21.98	0.005	0.04 - 0.32	0.64	4.3	0.8292	0.83	0.37	4.03	0.1336	0.20
	1990 -										0.14 -				0.00 -
103208	2007	IC	T	0.46	31.17	0.0001	0.04 - 0.20	0.56	9.04	0.3386	0.73	0.64	2.11	0.3486	0.20
	2005 -										0.14 -			_	0.00 -
103211	2007	ERC	L	0.45	3.41	0	0.02 - 0.11	0.08	9.49	0.0235	0.52	0	0.01	0	0.40
10000	1990 -	***		0.45	40.00	0.0400	0.00 0.10	0.45		0.5004	0.22 -		4.05	0.0700	0.01 -
103209	2007	IC	L	0.45	19.88	0.0108	0.03 - 0.12	0.45	4.76	0.7831	0.52	0.24	1.95	0.3763	0.04
102207	1990 - 2007	DI	,	0.45	20.06	0.0101	0.04 0.24	0.46	7.16	0.510	0.16 - 0.68	0.72	0.89	0.6419	0.00 - 0.16
103207 SIG - (103207, 103208,	1990 -	BI	L	0.45	20.06	0.0101	0.04 - 0.24	0.46	7.16	0.519	0.08	0.72	0.89	0.6419	0.16
103210)	2007	SC	Т	0.43	28.35	0.0004	0.04 - 0.36	0.63	3.4	0.9066	0.24	0.48	1.73	0.4218	0.01
103210)	1990 -	SC.	1	0.43	20.33	0.0004	0.04 - 0.30	0.03	3.4	0.9000	0.36 -	0.40	1./3	0.4210	0.20
103210	2007	IC	A	0.43	38.53	0	0.03 - 0.21	0.15	12.44	0.1325	0.20	0.38	2.11	0.3483	0.01
103210	1990 -	10		0.15	30.33	Ü	0.03 0.21	0.13	12.11	0.1323	0.23 -	0.50	2.11	0.0100	0.01 -
103209	2007	IC	Α	0.42	23.05	0.0033	0.03 - 0.15	0.41	6.39	0.6037	0.57	0.29	1.63	0.4417	0.06
	1990 -										0.21 -				0.01 -
103209	2007	BI	A	0.41	16.33	0.0379	0.03 - 0.15	0.2	13.74	0.0888	0.55	0.22	1.78	0.4111	0.05
	1990 -										0.16 -				0.00 -
103207	2007	BI	A	0.41	27.69	0.0005	0.03 - 0.21	0.41	9.29	0.3186	0.70	0.65	2.2	0.3326	0.23
	1990 -										0.16 -				0.00 -
103208	2007	SC	R	0.4	19.6	0.0065	0.04 - 0.20	0.87	1.4	0.8433	0.78	0.86	0.8	0.3715	0.26
	1990 -										0.31 -				0.02 -
103210	2007	SC	A	0.4	29.9	0.0002	0.05 - 0.35	0.07	26.49	0.0009	0.62	0.24	1.79	0.4092	0.10
	1990 -		l _								0.20 -				0.00 -
103208	2007	BI	F	0.4	31.18	0.0001	0.04 - 0.23	0.45	9.78	0.2809	0.78	0.52	5.98	0.0503	0.36
102210	1990 -	66	- T	0.20	22.1	0.0001	0.04 0.05	0.1	10.07	0.0052	0.34 -	0.24	1.61	0.4470	0.02 -
103210	2007	SC	T	0.39	32.1	0.0001	0.04 - 0.35	0.1	13.87	0.0852	0.54	0.24	1.61	0.4476	0.09
103207	1990 - 2007	IC	A	0.39	34.95	0	0.04 - 0.16	0.42	11.61	0.1693	0.19 - 0.71	0.97	0.11	0.9487	0.00 - 0.20
103207	1990 -	IC	A	0.39	34.93	U	0.04 - 0.10	0.42	11.01	0.1093	0.71	0.97	0.11	0.9407	0.20
103208	2007	SC	Т	0.38	33.13	0.0001	0.05 - 0.26	0.57	6.21	0.6238	0.80	0.56	2.06	0.3572	0.01
103200	1990 -	BC	1	0.56	33.13	0.0001	0.03 - 0.20	0.57	0.21	0.0236	0.16 -	0.50	2.00	0.0012	0.25
103208	2007	IC	A	0.38	39.09	0	0.04 - 0.17	0.42	14.79	0.0634	0.72	0.57	2.25	0.3248	0.17
	1990 -			0.00		-	0.00.		,		0.32 -				0.01 -
103210	2007	SC	L	0.37	27.12	0.0007	0.04 - 0.30	0.06	28.7	0.0004	0.52	0.98	0.01	0.9934	0.09
	1990 -										0.20 -				0.01 -
103208	2007	SC	A	0.36	24.6	0.0018	0.04 - 0.21	0.4	12.11	0.1466	0.74	0.65	1.75	0.4175	0.19
	1990 -										0.21 -				0.01 -
103209	2007	BI	T	0.36	25.85	0.0011	0.03 - 0.16	0.28	9.2	0.3254	0.61	0.95	0.03	0.9843	0.07
	1990 -										0.20 -				0.00 -
103208	2007	SC	L	0.35	26.33	0.0009	0.04 - 0.19	0.33	13.91	0.084	0.66	0.69	1.71	0.4248	0.15
	1990 -		l _						l		0.16 -				0.00 -
103207	2007	IC	L	0.35	30.78	0.0002	0.04 - 0.15	0.65	4.4	0.8197	0.66	0.99	0.05	0.9775	0.13

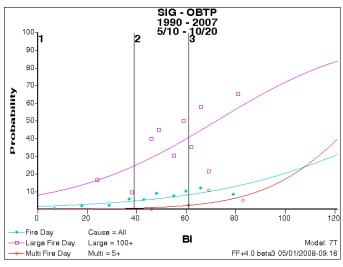
SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
520/544101	1990 -	, 111111111111	1120401		- CIII 2	2 / 142	1 11111190		- CAR 2	2 / 142	0.20 -		- CAA 2		0.01 -
103209	2007	BI	R	0.34	19.18	0.0139	0.03 - 0.14	0.13	12.18	0.1432	0.56	0.3	1.24	0.5393	0.08
	1990 -										0.22 -				0.01 -
103207	2007	SC	R	0.32	9.73	0.2848	0.05 - 0.24	0.5	6.66	0.3538	0.70	0.22	7.18	0.0276	0.14
102200	1990 -	9.0	-	0.21	2.4	0.0022	0.05.000	0.56	7.06	0.4472	0.25 -	0.74	2.06	0.0500	0.01 -
103208	2007	SC	F	0.31	24	0.0023	0.05 - 0.23	0.56	7.86	0.4472	0.81	0.74	2.06	0.3562	0.31
103211	2005 -	ERC	A	0.29	5.25	0	0.03 - 0.08	0.87	0.28	0	0.06 -	0	0.01	0	0.00 -
103211	2007	LKC	А	0.27	3.23	U	0.03 - 0.08	0.67	0.20	0	0.14 -	U	0.01	0	0.00 -
103211	2007	BI	T	0.27	9.06	0	0.03 - 0.23	0.24	6.4	0.3803	0.80	0	0	0	0.99
	1990 -										0.25 -				0.01 -
103207	2007	SC	T	0.26	25.12	0.0015	0.05 - 0.28	0.4	9.57	0.2966	0.73	0.6	1.75	0.4171	0.12
	2005 -										0.24 -	_		_	0.00 -
103211	2007	SC	F	0.24	9.75	0	0.04 - 0.30	0.31	5.37	0.3728	0.82	0	0.01	0	1.00
103211	2005 - 2007	SC	F	0.24	9.75	0	0.04 - 0.30	0.31	5.37	0.3728	0.24 - 0.82	0	0.01	0	0.00 - 1.00
103211	1990 -	SC	Г	0.24	9.73	U	0.04 - 0.30	0.31	3.37	0.3726	0.30 -	U	0.01	U	0.02 -
103209	2007	SC	A	0.24	12.3	0.1382	0.05 - 0.13	0.41	2.4	0.9664	0.52	0.13	1.89	0.3882	0.05
	2005 -					01100	0.00				0.35 -	0.120			0.00 -
103211	2007	IC	F	0.21	4.07	0	0.04 - 0.08	0.02	10.52	0.0618	0.42	0	0.01	0	0.26
	2005 -										0.15 -				0.00 -
103211	2007	ERC	R	0.21	9.91	0	0.01 - 0.11	0.04	5.71	0.2221	0.48	0	0.01	0	0.51
102211	2005 -	00		0.0	11.00		0.05.000	0.25	F 45	0.2620	0.20 -			0	0.00 -
103211	2007	SC	T	0.2	11.82	0	0.05 - 0.28	0.25	5.45	0.3629	0.91 0.17 -	0	0	0	1.00 0.00 -
103211	2005 -	IC	Т	0.19	6.58	0	0.03 - 0.11	0.2	10.05	0.0738	0.17 -	0	0.02	0	0.00 - 0.42
103211	2005 -	ic	1	0.17	0.56	U	0.03 - 0.11	0.2	10.03	0.0736	0.03	U	0.02	0	0.42
103211	2007	BI	F	0.19	13.43	0	0.04 - 0.19	0.14	9.09	0.1683	0.69	0	0.02	0	0.90
	1990 -										0.28 -				0.01 -
103207	2007	SC	L	0.19	19.18	0.0139	0.06 - 0.18	0.47	5.34	0.7207	0.65	0.61	1.64	0.4413	0.13
	1990 -										0.29 -				0.01 -
103207	2007	SC	A	0.19	21.02	0.0071	0.05 - 0.16	0.32	9.15	0.3302	0.65	0.67	1.68	0.4309	0.22
103211	2005 - 2007	BI	R	0.17	12	0	0.02 - 0.19	0.16	5.7	0.3368	0.09 - 0.79	0	0	0	0.00 - 0.96
103211	1990 -	DI	K	0.17	12	U	0.02 - 0.19	0.10	3.7	0.3308	0.79	U	U	U	0.96
103209	2007	SC	L	0.15	18.34	0.0188	0.05 - 0.11	0.11	11.92	0.155	0.33	0.87	0.01	0.9968	0.02
10020)	2005 -	50		0.10	10.0.	0.0100	0.00 0.11	0.11	11.72	0.120	0.14 -	0.07	0.01	0.000	0.00 -
103211	2007	BI	L	0.13	13.08	0	0.03 - 0.15	0.22	8.05	0.1535	0.74	0	0.01	0	0.73
	2005 -							_			0.14 -				0.00 -
103211	2007	IC	R	0.12	9.57	0	0.04 - 0.09	0.32	4.97	0.29	0.60	0	0.02	0	0.37
102211	2005 -	g c	D	0.12	0.63		0.04 0.00	0.01	0.25	0.0245	0.16 -			0	0.00 -
103211	2007	SC	R	0.12	9.63	0	0.04 - 0.22	0.91	0.36	0.8345	0.91	0	0	0	1.00 0.00 -
103211	2005 -	BI	A	0.12	10.54	0	0.03 - 0.13	0.2	5.95	0.311	0.14 - 0.72	0	0.01	0	0.00 -
103211	2005 -	ועו	11	0.12	10.54	0	0.03 - 0.13	0.2	3.73	0.511	0.72	0	0.01	0	0.00 -
103211	2007	ERC	F	0.12	11.83	0	0.03 - 0.12	0.05	9.32	0.0968	0.53	0	0.02	0	0.56

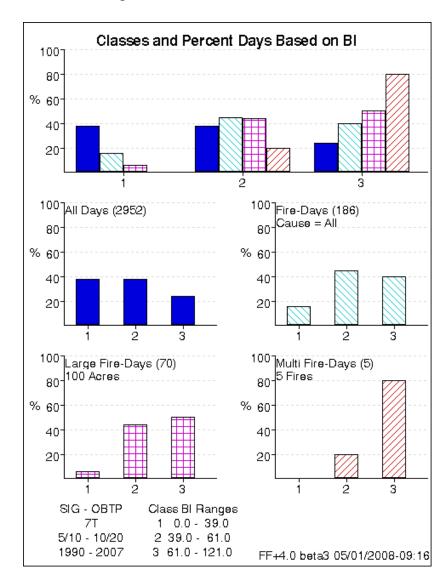
SIG/Station	Years	Variable	Model	FD R^2	FD Chi^2	FD P-Val	FD P-Range	LFD R^2	LFD Chi^2	LFD P-Val	LFD P-Range	MFD R^2	MFD Chi^2	MFD P-Val	MFD P-Range
	2005 -										0.19 -				0.00 -
103211	2007	IC	A	0.1	11.9	0	0.04 - 0.10	0.12	4.09	0.536	0.64	0	0.01	0	0.46
	2005 -										0.22 -				0.00 -
103211	2007	SC	L	0.1	13.31	0	0.04 - 0.17	0.49	2.59	0.7634	0.79	0	0.01	0	0.78
	2005 -										0.17 -				0.00 -
103211	2007	IC	L	0.09	10.26	0	0.04 - 0.09	0.34	3.31	0.5067	0.59	0	0.02	0	0.37
	2005 -										0.21 -				0.00 -
103211	2007	SC	A	0.05	13.37	0	0.04 - 0.14	0.62	1.6	0.9526	0.77	0	0.01	0	0.66
	1990 -										0.32 -				0.02 -
103209	2007	SC	T	0.03	31.1	0.0001	0.06 - 0.11	0.22	3.95	0.8618	0.60	0	0.83	0.6587	0.08

Owyhee Canyonlands Dispatch Level

Working Set: Owyhee Ridge, Pole Creek, Brace Flat, Triangle RAWS 1990-2007, Fuel Model T, Large Fire Acres = 100, Multiple Fire Day = 5. Fire Associations Include: Boise District BLM and Idaho Department of Lands fires within the FDRA.

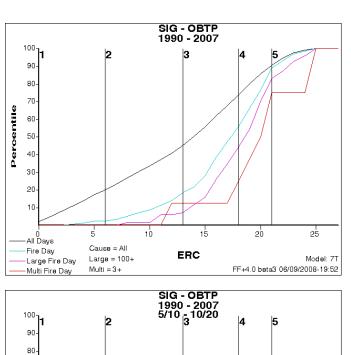


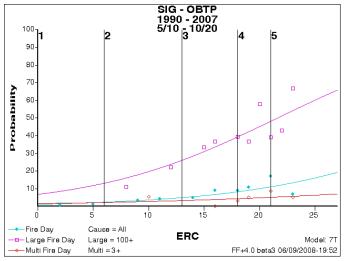


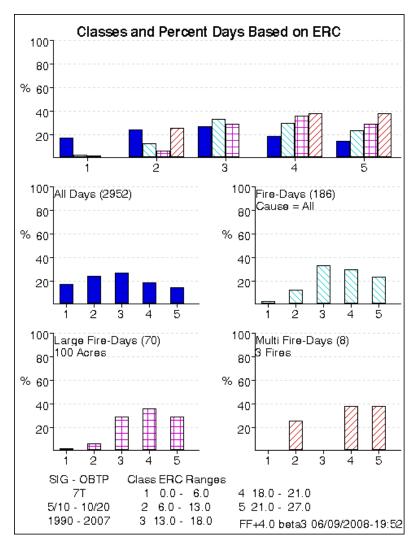


Owyhee Canyonlands Preparedness Level

Working Set: Owyhee Ridge, Pole Creek, Brace Flat, Triangle RAWS 1990-2007, Fuel Model T, Large Fire Acres = 100, Multiple Fire Day = 5. Fire Associations Include: Boise District BLM and Idaho Department of Lands fires within the FDRA.





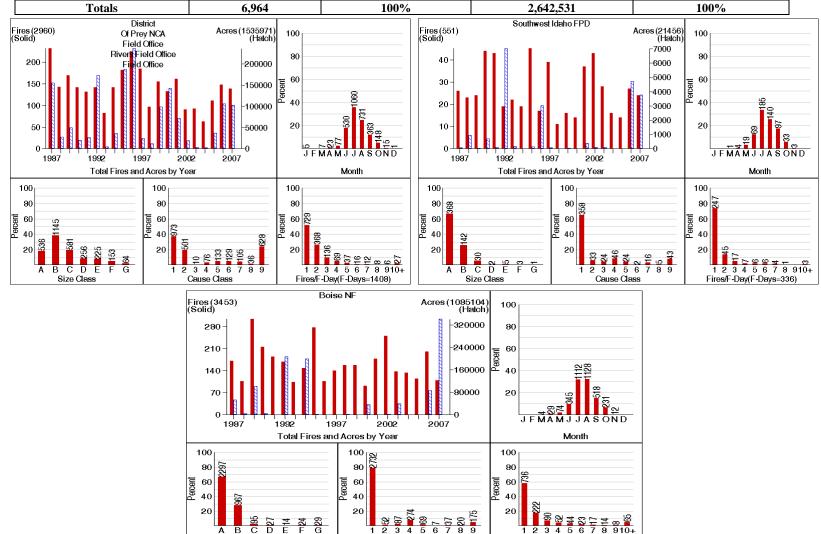


Appendix K – Fire Occurrence (by Agency)

Fire Family Plus Database (1987-2007)

Boise Dispatch Center

Agency	# of Fires	% of Total Fires	Acres Burned	% of Total Acres
BLM	2,960	42.5%	1,535,971	58.1%
Idaho Department of Lands	551	7.9%	21,456	0.8%
Boise National Forest	3,453	49.6%	1,085,104	41.1%
Totals	6,964	100%	2,642,531	100%



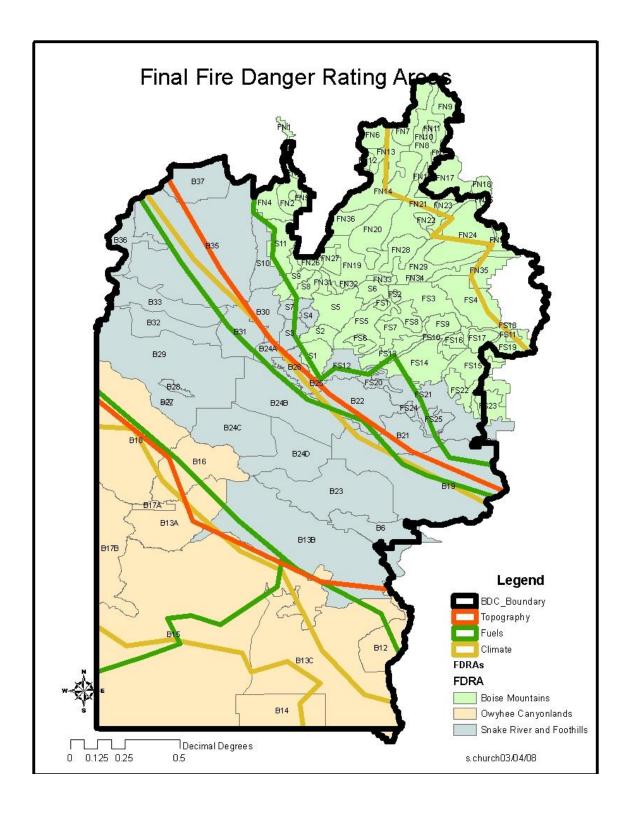
Cause Class

Fires/F-Day(F-Days=1271)

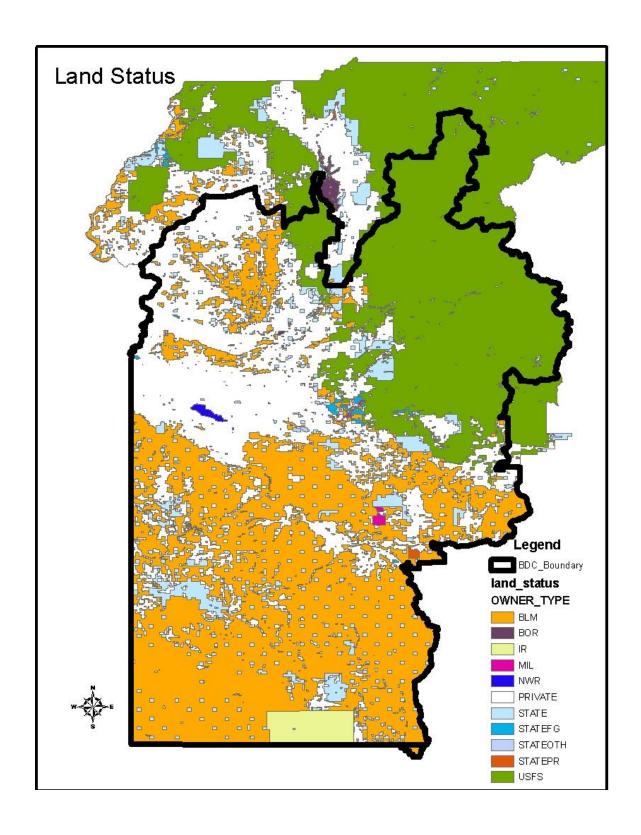
Size Class

Appendix L - Maps

Fire Danger Rating Areas

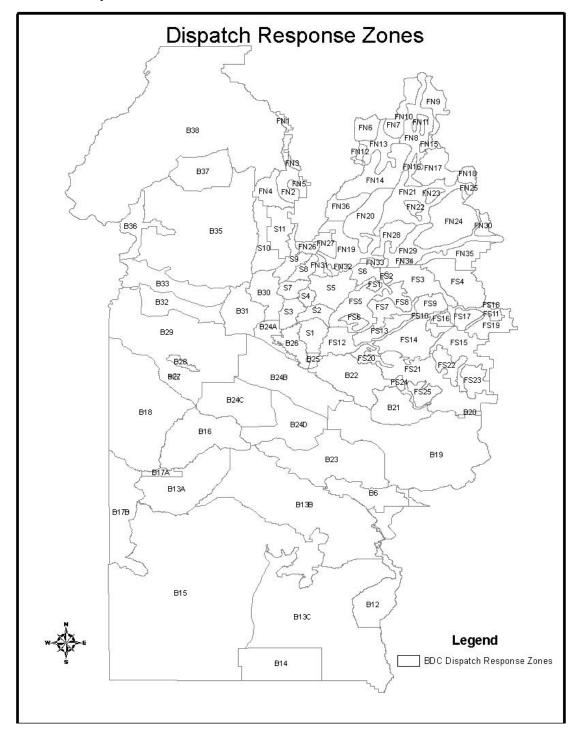


Ownership

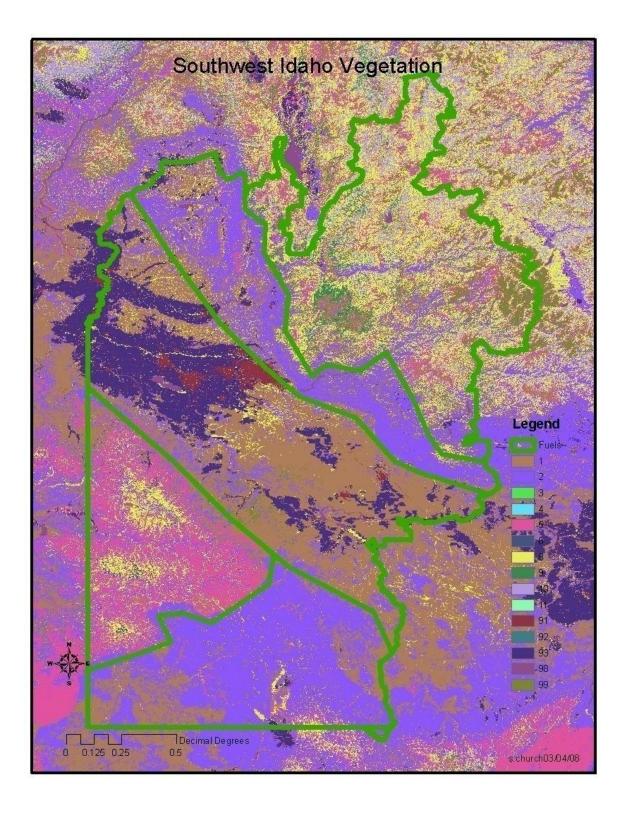


Dispatch Zones

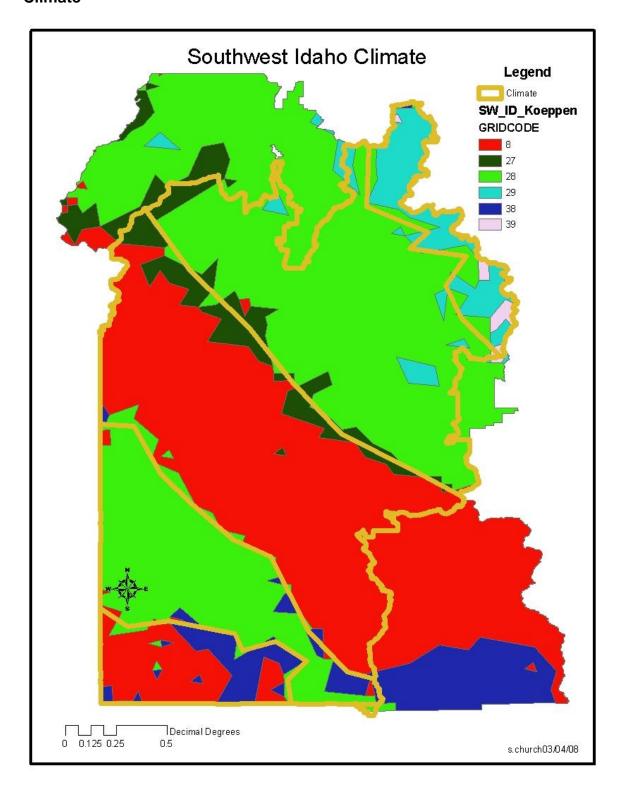
Note: B38 is the responsibility of Payette National Forest Dispatch and was not part of the analysis

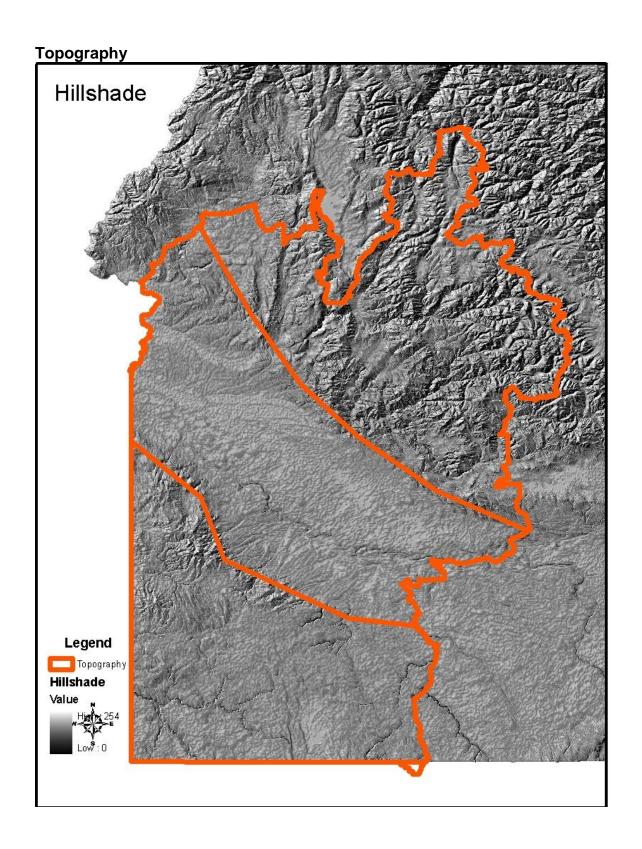


Vegetation Data

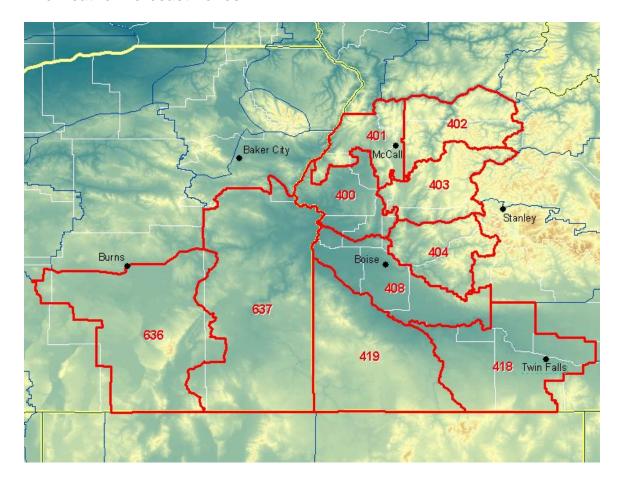


Climate

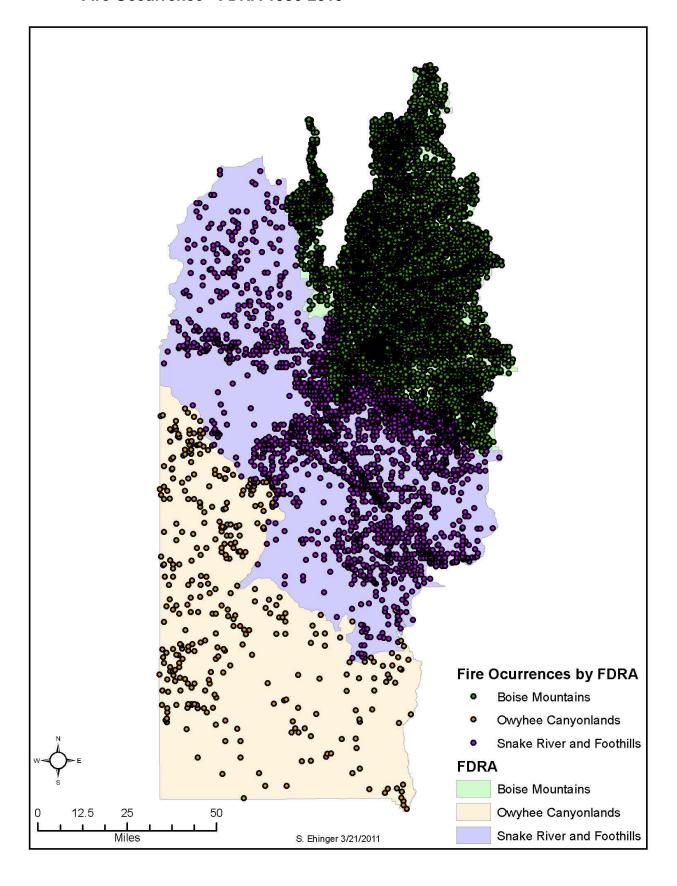




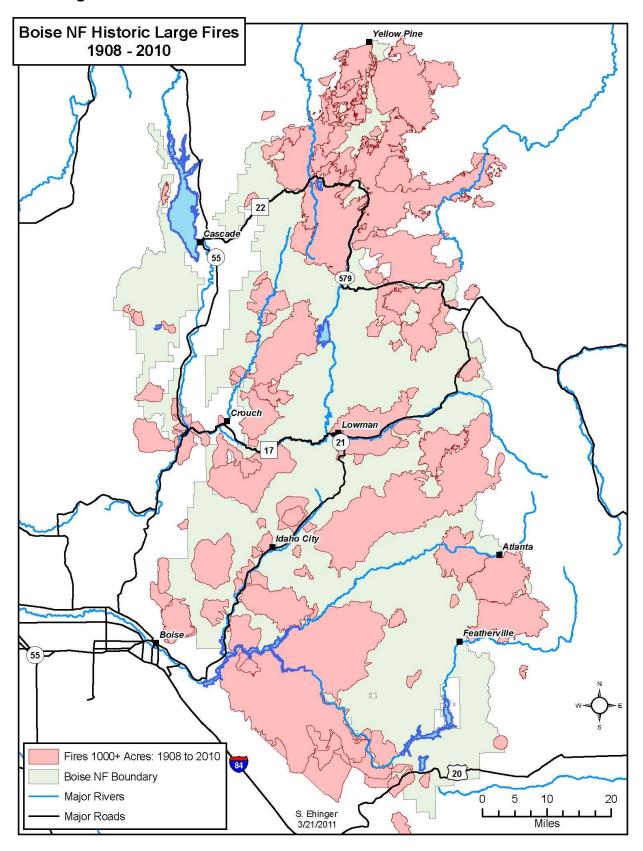
Fire weather Forecast Zones



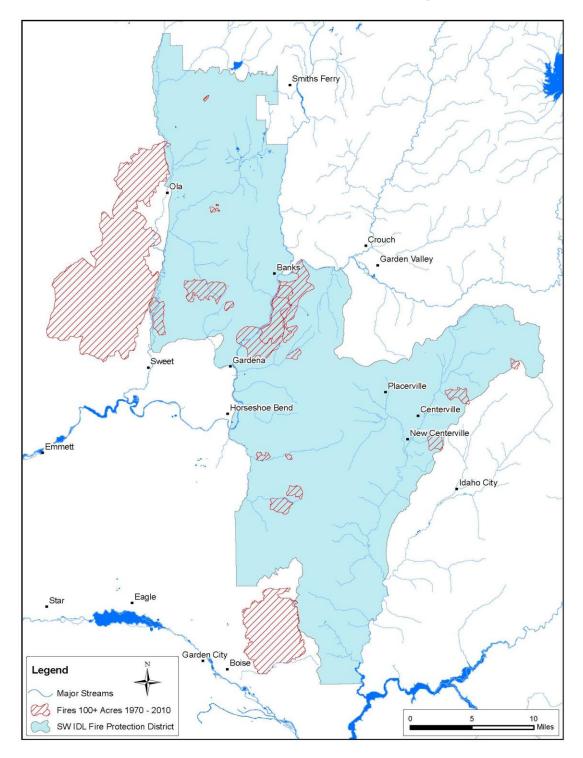
Fire Occurrence - FDRA 1956-2010



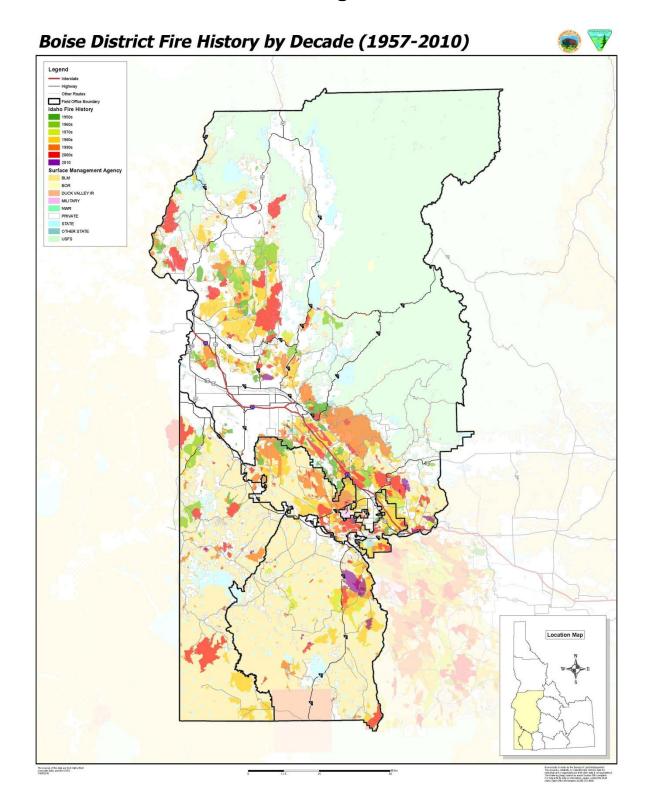
Large Fire Occurrence



Idaho Department of Lands Historic Large Fires



Boise District BLM Historic Large Fires



Appendix M – NFDRS Fuel Models

The following descriptions of the various NFDRS fuel models are taken from Deeming et al. (1977).

Fuel Model A – This fuel model represents western grasslands vegetated by annual grasses and forbs. Brush or trees may be present but are very sparse, occupying less than one-third of the area. Examples of types where Fuel Model A should be used are cheatgrass and medusahead. Open pinyon-juniper, sagebrush-grass, and desert shrub associations may appropriately be assigned this fuel model if the woody plants meet the density criteria. The quantity and continuity of the ground fuels vary greatly with rainfall from year to year.

Fuel Model B – Mature, dense fields of brush six feet or more in height is represented by this fuel model. One-fourth or more of the aerial fuel in such stands is dead. Foliage burns readily. Model B fuels are potentially very dangerous, fostering intense, fast-spreading fires. This model is for California mixed chaparral, generally 30 years or older. The F model is more appropriate for pure chamise stands. The B model may also be used for the New Jersey pine barrens.

Fuel Model C – Open pine stands typify Model C fuels. Perennial grasses and forbs are the primary ground fuel but there is enough needle litter and branchwood present to contribute significantly to the fuel loading. Some brush and shrubs may be present but they are of little consequence. Types covered by Fuel Model C are open, longleaf, slash, ponderosa, Jeffery, and sugar pine stands. Some pinyon-juniper stands may qualify.

Fuel Model D – This fuel model is specifically for the palmetto-gallberry understory-pine association of the southeast coastal plains. It can also be used for the so-called "low pocosins" where Fuel Model O might be too severe. This model should only be used in the Southeast because of the high moisture of extinction associated with it.

Fuel Model E – Use this model after fall leaf fall for hardwood and mixed hardwood-conifer types where the hardwoods dominate. The fuel is primarily hardwood leaf litter. Fuel Model E best represents the oak-hickory types and is an acceptable choice for northern hardwoods and mixed forests of the Southeast. In high winds, the fire danger may be underrated because rolling and blowing leaves are not accounted for. In the summer after the trees have leafed out, Fuel Model R should replace Fuel Model E.

Fuel Model F – Fuel Model F represents mature closed chamise stands and oak brush fields of Arizona, Utah, and Colorado. It also applies to young, closed stands and mature, open stands of California mixed chaparral. Open stands of pinyon-juniper are represented; however, fire activity will be overrated at low wind speeds and where ground fuels are sparse.

Fuel Model G – Fuel Model G is used for dense conifer stands where there is a heavy accumulation of litter and down woody material. Such stands are typically over mature and may also be suffering insect, disease, and wind or ice damage—natural events that create a very heavy buildup of dead material on the forest floor. The duff and litter are deep and much of the woody material is more than three inches in diameter. The undergrowth is variable, but shrubs are usually restricted to openings. Types to be represented by Fuel Model G are hemlock-Sitka spruce, coastal Douglas fir, and wind thrown or bug-killed stands of lodgepole pine and spruce.

Fuel Model H – The short-needled conifers (white pines, spruces, larches, and firs) are

represented by Fuel Model H. In contrast to Model G fuels, Fuel Model H describes a healthy stand with sparse undergrowth and a thin layer of ground fuels. Fires in the H fuels are typically slow spreading and are dangerous only in scattered areas where the downed woody material is concentrated.

Fuel Model I – Fuel Model I was designed for clear-cut conifer slash where the total loading of materials less than six inches in diameter exceeds 25 tons/acre. After settling and the fines (needles and twigs) fall from the branches, Fuel Model I will overrate the fire potential. For lighter loadings of clear-cut conifer slash use Fuel Model J, and for light thinnings and partial cuts where the slash is scattered under a residual overstory, use Fuel Model K.

Fuel Model J – This model complements Fuel Model I. It is for clear-cuts and heavily thinned conifer stands where the total loading of material less than six inches in diameter is less than 25 tons per acre. Again as the slash ages, the fire potential will be overrated. **Fuel Model K** – Slash fuels from light thinnings and partial cuts in conifer stands are represented by Fuel Model K. Typically the slash is scattered about under an open overstory. This model applies to hardwood slash and to southern pine clear-cuts where loading of all fuels is less than 15 tons/acre.

Fuel Model L – This fuel model is meant to represent western grasslands vegetated by perennial grasses. The principal species are coarser and the loadings heavier than those in Model A fuels. Otherwise the situations are very similar; shrubs and trees occupy less than one-third of the area. The quantity of fuels in these areas is more stable from year to year. In sagebrush areas Fuel Model T may be more appropriate.

There is no Fuel Model M.

Fuel Model N – This fuel model was constructed specifically for the sawgrass prairies of south Florida. It may be useful in other marsh situations where the fuel is coarse and reed like. This model assumes that one-third of the aerial portion of the plants is dead. Fast-spreading, intense fires can occur over standing water.

Fuel Model O – The O fuel model applies to dense, brush like fuels of the Southeast. In contrast to B fuels, O fuels are almost entirely living except for a deep litter layer. The foliage burns readily except during the active growing season. The plants are typically over six feet tall and are often found under open stands of pine. The high pocosins of the Virginia, North and South Carolina coasts are the ideal of Fuel Model O. If the plants do not meet the 6- foot criteria in those areas, Fuel Model D should be used.

Fuel Model P – Closed, thrifty stands of long- needled southern pines are characteristic of P fuels. A 2 to 4 inch layer of lightly compacted needle litter is the primary fuel. Some small diameter branchwood is present but the density of the canopy precludes more than a scattering of shrubs and grass. Model P has the high moisture of extinction characteristic of the Southeast. The corresponding model for other long-needled pines is H.

Fuel Model Q – Upland Alaska black spruce is represented by Fuel Model Q. The stands are dense but have frequent openings filled with usually flammable shrub species. The forest floor is a deep layer of moss and lichens, but there is some needle litter and small diameter branchwood. The branches are persistent on the trees, and ground fires easily reach into the crowns. This fuel model may be useful for jack pine stands in the Lake States. Ground fires are typically slow spreading, but a dangerous crowning potential

exists. Users should be alert to such events and note those levels of SC and BI when crowning occurs.

Fuel Model R – This fuel model represents hardwood areas after the canopies leaf out in the spring. It is provided as the off- season substitute for Fuel Model E. It should be used during the summer in all hardwood and mixed conifer-hardwood stands where more than half of the overstory is deciduous.

Fuel Model S – Alaskan and alpine tundra on relatively well-drained sites fit this fuel model. Grass and low shrubs are often present, but the principal fuel is a deep layer of lichens and moss. Fires in these fuels are not fast spreading or intense, but are difficult to extinguish.

Fuel Model T – The sagebrush-grass types of the Great Basin and the Intermountain West are characteristic of T fuels. The shrubs burn easily and are not dense enough to shade out grass and other herbaceous plants. The shrubs must occupy at least one-third of the site or the A or L fuel models should be used. Fuel Model T might be used for immature scrub oak and desert shrub associations in the West and the scrub oak-wire grass type of the Southeast.

Fuel Model U – This fuel model represents the closed stands of western long-needled pines. The ground fuels are primarily litter and small branchwood. Grass and shrubs are precluded by the dense canopy but may occur in the occasional natural opening. Fuel Model U should be used for ponderosa, Jeffery, sugar pine stands of the West and red pine stands of the Lake States. Fuel Model P is the corresponding model for southern pine plantations.

Appendix N - NFDRS Flow Chart

NFDRS Structure

